रजिस्ट्री सं० डी (डीएन)—128/90 REGISTERED NO. D—(DN)—128/90

भारत का राजपत्र
The Gazette of India

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

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No. 10] NEW DELHI, SATURDAY, MARCH 10, 1990 (PHALGUNA 19, 1911)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation

भाग III—खण्ड 2
[PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATNET OFFICE

PATENTS AND DESIGNS

Calcutta, the 10th March 1990

ADDRESS AND JURISDICTION OF OFFICES OF THE PATENT OFFICE

The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial jurisdiction on a zonal basis as shown below : —

Patent Office Branch,
Todi Estates, III Floor, Lower Parel (West),
Bombay-400 013.

The States of Gujarat, Maharashtra, and Madhya Pradesh, and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

Telegraphic address "PATOFFICE".

Patent Office Branch,
Unit No. 401 to 405, III Floor,
Municipal Market Building,
Saraswati Marg, Karol Bagh,
New Delhi-110005.

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi.

Telegraphic address "PATENTOFIC".

Patent Office Branch,
61, Wallajah Road,
Madras-600 002.

The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office (Head Office),
"NIZAM PALACE", 2nd M.S.O. Building,
5th, 6th and 7th Floor,
234/4, Acharya Jagadish Bose Road,
Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All apprications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

Fees :—The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

पेटेंट कार्यालय
एकस्व तथा अभिकल्प
कलकत्ता, दिनांक 10 मार्च 1990

पेटेंट कार्यालय की कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में अवस्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा,
टोडी इस्टेट,
तीसरा तल, लोअर परेल (पश्चिम),
बम्बई-400 013.

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र एवं संघ शासित क्षेत्र गोआ, दमन तथा दिव एवं दादरा और नगर हवेली ।

तार पता—"पेटोफिस" ।

पेटेंट कार्यालय शाखा,
एनेक्स सं. 401 से 405, तीसरा तल,
नगरपालिका बाजार भवन,
सरस्वती मार्ग, करोल बाग,
नई दिल्ली-110 005.

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली ।

तार पता—"पेटेंटोफिस" ।

पेटेंट कार्यालय शाखा,
61, वालाजाह रोड,
मद्रास-600 002.

आंध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्षद्वीप, मिनिकाय तथा एमिनिदिवि द्वीप ।

तार पता—"पेटोफिस" ।

पेटेंट कार्यालय (प्रधान कार्यालय),
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय भवन,
5, 6 तथा 7वां तल,
234/4, आचार्य जगदीश बोस रोड,
कलकत्ता-700 020.

भारत का अवशेष क्षेत्र ।

तार पता—"पेटेंट्स" ।

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए जायेंगे ।

शुल्क :—शुल्कों की अदायगी या तो नकद की जायेगी अथवा उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य धनादेश अथवा डाक आदेश या जहां उपयुक्त कार्यालय अवस्थित है; उस स्थान के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट अथवा चेक द्वारा की जा सकती है ।

CORRIGENDUM

In the Gazette of India, Part-III, Section-2, dated the 6th January, 1990 regarding the Patent Application Number 165744 delete "AN INVENTION FOR" and the word 'antena' read as 'antenna'.

APPICATION FOR PATENTS FILED AT THE HEAD OFFICE, 234/4, ACHARYA JAGADICH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed Under Section 135, of the Patents Act, 1970.

The 30th January 1990

81/Cal/90. Aziende Chimiche Riunite Angelini Francesco A. C. R. A. F. S.p.A. Ethers of 1-Benzyl-3-Hydroxymethyl-Indazole with Aliphatic 2-hydroxy-acids.

82/Cal/90. Ausimont S.r.l., Himont Incorporated, Montedison S.p.A. Catalysts for the polymerization of olefins.

83/Cal/90. Ausimont S.r.l., Himont Incorporated, Montedison S.p.A., Catalysts for the polymerization of olefins.

84/Cal/90. E. I. Du Pont Nemours and Company, Purification of saturated halocarbons.

85/Cal/90. E. I. Pont De Nemours and Company. Manufacture of 1, 1, 1, 2-Tetrafluoroethane.

86/Cal/90. E. I. Du Pont De Nemours and Company. Improved hydrogenolysis/dehydrohalogenation process.

87/Cal/90. Romeo-Rim, Inc. Vehicle bumper.

88/Cal/90. (1) Donetsky Gosudarstvenny Meditsinsky Institut Imeni M. Gorkogo, Ussr;

(2) Voroshilovgradsky Meditsinsky Institut Ussr Apparatus for correcting the emotional condition of an individual.

89/Cal/90. Kabelmetal Electro Gesellschaft mit beschrankter Haftung. Heat recoverable product and method of making the same.

90/Cal/90. Agan Chemical Manufacturers Ltd. A process for presparing environmentally safe dicofol and its formulations.

The 1st February 1990

91/Cal/90. Fidia S.p.A. A process for the preparation of a mixed ester having partially cross-linked ester and non cross-linked Esters of Hyaluronic acid.

[Divisional dated 9th October, 1987].

92/Cal/90. Helmuth Schmoock. Expander roller (also called rotary stretcher) for webs of paper, textile material, foil or the like.

93/Cal/90. Herbert Strasshei Mer. Blow molded plastic container.

[Divisional dated 21st January, 1988].

94/Cal/90. American Standard Inc. Sanitary water valve with noise muffler.

The 2nd February 1990

95/Cal/90. Hoechst Aktiengesellschaft. Copper complex formazan compounds, preparation thereof and use thereof as dyes.

96/Cal/90. Hitachi, Ltd. Electric locomotive and method of equipping electric locomotive.

97/Cal/90. Phillips Petroleum Company. Process for dehydro-generating alkanes.

98/Cal/90. (1) Saroj Kumar Mitra, (2) Hardev Prasad Sinha, (3) N. V. S. Krishna, (4) Kennath N. Das, (5) Biswanath Ghosh, (6) Hemant Manohar Nerurkar, and (7) Dr. Tridivesh Mukherjee; (8) Tata Iron & Steel Co. Ltd. Process for the preparation of anhydrous tap hole mixture for blast furnace.

99/Cal/90. Voest-Alpine Zeltweg Gesellschaft m.b.H. Device for monitoring the distance of the front surfaces of rails, for example in connection with dilatation junctions.

The 5th February 1990

100/Cal/90. Bike-0 - Matic, Ltd. Improved automatic derailleur shifter.

101/Cal/90. Vac-Tec Systems, Inc. Layered structure for adhering gold to a substrate and method of forming such.

102/Cal/90. Trutzeschler GmbH & Co. Kg. A procedure and device to operate a feeding device for fibre material, Eg. hopper feeder.

103/Cal/90. Metallgesellschaft Aktiengesellschaft. Process of regenerating a high-boiling scrubbing solution which contains CO_2 and H_2S.

104/Cal/90. Phillips Petroleum Company. Composition for altering water permeability of subterranean formation and polymer crosslinking metal cation complex.

105/Cal/90. American Cyanamid Co. Method for the preparation of Anilino-fumarate.

[Divisional dated 18th June, 1987].

106/Cal/90. American Cyanamid Co. Method for the preparation of Anilino-fumarate.

[Divisional dated 18th June, 1987].

107/Cal/90. American Cyanamid Co. Method for the preparation of Anilino-fumarate.

[Divisional dated 18th June, 1987].

108/Cal/90. Dr. Ing. Roderich W. Graff. Method and apparatus for adsorbing moisture from gases, especially air.

109/Cal/90. Alko Limited. Novel method for production of phytate free or low phytate soy protein isolate and concentrate.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, IIIRD FLOOR, KAROL BAGH, NEW DELHI-110005

The 8th January 1990

24/Del/90. National Research Development Corporation, "Preparing metal for melt-coating". (Convention date 23rd January, 1989) (U.K.).

25/Del/90. Compagnie Europenne Pour L' Equipment Menager-CEPEM, "Temperature-measuring device for an induction-type cooking appliance and appliance having such a device".

26/Del/90. Compagnie Europenne Pour L' Equipment Menager-CEPEM, "Device and process for regulating a cooking appliance".

The 9th January 1990

27/Del/90. The Procter & Gamble Co., "Deodorant compositions containing specific piroctone salts and perfumes".

28/Del/90. The Procter & Gamble Co., "Easy open flexible bag filled with compressed flexible articles and method and apparatus for making".

29/Del/90. Bayer Italia S. P. A., "Ceramic powders for electrostatic powder coating and processes for their preparation".

30/Del/90. Lincoln Mills, Inc., "Surgical shoulder positioning apparatus".

31/Del/90. The Lubrizol Corporation, "A functional fluid composition".

[Divisional date 5th November, 1985].

The 10th January 1990

32/Del/90. Thomson-CSF, "Universal map display system, in particular for visualisation, on an appropriate map background, of an object whose position is identified using any coordinate system".

33/Del/90. Motorola Inc, "Quartz resonator with mounting pedestals".

34/Del/90. Samsung Electron Devices Co., Ltd, "Welding device for cathode of electron gun of catnode ray tube".

35/Del/90. Samsung Electron Devices Co. Ltd., "Supporting structure for heater of electron gun".

36/Del/90. Samsung Electron Devices Co. Ltd, "Straightness measuring device for electron gun assembly".

37/Del/90. Samsung Electron Devices Co. Ltd., "Gap measuring device."

The 12th January, 1990

38/Del/90. Uniroyal Chemical Co. Inc., "Metal acrylates as rubber-to-metal adhesion promoters".

39/Del/90. Stein Industrie, "Device for suspending a horizontal heat exchange tube on a vertical support tube".

40/Del/90. Akerlund & Rausing Licens Aktiebolag, "Wrap-around-box for conatiners".

The 15th January 1990

41/Del/90. Steel Authority of India Ltd., "A process of producing an improved compound for spraying and patching of refractories in coke ovens".

The 18th January 1990

42/Del/90. Rakesh Kumar Kaushal, "An apparatus for the magnetic treatment of flowing liquids".

43/Del/90. Rakesh Kumar Kaushal, "An apparatus for the magnetic treatment of flowing liquids".

44/Del/90. Kenthal Ltd., "Heating panels". (Convention date 20th June, 1986) (U.K.) & [Divisional date 16th June, 1987].

45/Del/90. Agence Regionale De Developments Technologiques, "Process for cleaning the surface of materials and device for carrying out this process, employing the focussing of a pulsed laser with short pulses on the surface to be cleaned".

46/Del/90. Bachmann Corporate Services, Inc., "Guillotine dampers with blade sealing means accommodative of thermal expansion forces".

47/Del/90. Bashmann Corporate Services, Inc., "Louver dampers for use in gas turbines exhaust systems and having blades protected against becoming warped".

The 19th January 1990

48/Del/90. Steel Authority of India Ltd., "A multi-purpose device for simulative evalution of refractories and minerals".

49/Del/90. Pandrol Ltd., "Rail Pads". (Convention date 20th January, 1989) (U. K.).

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATES, IIIRD FLOOR, SUN MILL COMPOUND, LOWER PAREL (WEST) BOMBAY-13

The 2nd January 1990

1/Bom/1990. Vipin Champsey Shah. A more fuel-efficient otto-engine.

The 5th January 1990

2/Bom/1990. Vidyadhar Bandu Danawade. Excess iron reval plant.

The 9th January 1990

3/Bom/1990. Hoechst India Limited. A process for the production of a new glycopeptide antibiotic F from a *Nocardia* species Y-86, 20095 (Culture Number, Hoechst India Limited, Y-86, 20095) & its mutants & variants & preparation of pharmaceutically useful salts thereof.

4/Bom/1990. Larsen & Toubro Ltd. A sulphur troxide preabsorption device for use in a sulphuric acid plant.

5/Bom/1990. Larsen & Toubro Ltd. A two stage SO_2 scrubber for use in a sulphuric acid plant.

The 10th January 1990

6/Bom/1990. Rajendra Madhukar Bajikar. Leak-proof valves for fluids.

7/Bom/1990. U. V. Gokarn. Non-thermal evaporators.

The 11th January 1990

8/Bom/1990. Prakash Murlidhar Kakad. Board game Cross Over.

The 12th January 1990

9/Bom/1990. The Director The automotive Research Association of India. Improved 2-stroke engine with rotary valve in transfer and/or exhaust port & piston ported rotary valve 4-stroke engine with 2-dummy strokes.

The 15th January 1990

10/Bom/1990. Vishwas Krishnarao Sawant. A dish washing machine.

The 18th January 1990

11/Bom/1990. Lovejoy India (Pvt.) Ltd. Coupling assembly for misaligned shafts.

The 19th January 1990

12/Bom/1990. Sham Khanna. A liquid or gaseous fuel Press.

The 22nd January 1990

13/Bom/1990. Upinder Singh Santokh Singh Narula. Rotating disc shower.

14/Bom/1990. Dr. Milind N. Ovalkar. A device for the protection of occupants of interceptor aircraft against the effects of long duration negative of G (-GZ) and transverse P-A G (G-X).

15/Bom/1990. Vaman V. Parekh & Others. An improved printed circuit board holder (used for assembly line in electronic industries).

46/Bom/1990. Adarsh Radhakrishnan Agrawal. An improved brush plus shaving system.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

The 15th January 1990

37/Mas/90. Velyayie Aydrose Mohamed. Improved frames for doors, windows or the like openings, made of Cement Concrete, Cement mortor or any similar material, with or without reinforcement.

38/Mas/90. Blayie Mohamed Hyder Siraj. Improved disposable containers used for drinking purpose.

39/Mas/90. Palitex Project-Company GmbH. Double-sided textile machine having a plurality of winding units for procuring cross-wound packages.

40/Mas/90. David Male. An improved cheque book. (January 13, 1990; Australia).

41/Mas/90. Palitex Protect Company GmbH. Method and apparatus for transporting a yarn package to a yarn processing machine.

42/Mas/90. George Osbakk. Compressible bottle.

The 16th January 1990

43/Mas/90. Caterpillar Inc., Balanced free-planet drive mechanism.

44/Mas/90. Henkel Kommanditgesellschaft auf Aktien . a Hand-held device for transferring a film from a backing tape to a substrate.

45/Mas/90. Societe des Produits Nestle S. A. Beverage infusion device and method.

46/Mas/90. American Telephone and Telegraph Company. Methods for part-of-speech determination and usage. (February 1, 1989; Australia).

47/Mas/90. Henkel Kommanditgesellschaft auf Aktien. A hand-held device for transferring a film from a backing tape to a substrate.

48/Mas/90. Calgon Corporation. Low free formaldehyde melamine-formaldehyde detackifier and method of using.

The 17th January 1990

49/Mas/90. Davy McKee (London) Limited. Process for the production of alcohols.

50/Mas/90. Davy McKee (London) Limited. Process and apparatus for the production of carboxylic acid esters.

51/Mas/90. Davy McKee (London) Limited. Process for the production of fatty alcohols. (January 17, 1989; United Kingdom).

18th January, 1990.

52/Mas/90. Astra Research Centre India. A novel yector to produce biologically important peptides.

53/Mas/90. Astra Research Centre India. New recombinant plasmids.

54/Mas/90. Maschinenfabrik Rieter AG. Procedure for the production of blended yard.

The 19th January, 1990

55/Mas/90. Creusot Loire Industrie and Clecim. Mould for die-casting flat metal products, such as slabs.

56/Mas/90. Creusot Loire Industrie and Clecim. Lower structure of a mould for diecasting flat products, such as slabs, and process for mounting and removing the lower spacer of this mould.

57/Mas/90. Creusot Loire Industrie Clecim and Clecim. Device and method for supplying molten metal for die-casting metal products.

58/Mas/90. Sepracor, Inc. A method for resolving a racemic mixture. (Divisional to Patent Application No. 205/MAS/88).

22nd January, 1990.

59/Mas/90. Gani Kattubava. Unslotted Boltless quick assembly storage racks and shelves.

60/Mas/90. Aparna Chemisearch. A catalytic process for molecular restructuring of hydrocarbons.

61/Mas/90. M. J. Joseph New beedy leaf (Pezhe leaf) pressing to reducing injurious of beedy smoking.

62/Mas/90. Dr. R. Vijaya Kumar. The Principle and application of stored programme power control in power engineering.

63/Mas/90. O-I Neg Television Products Inc. Plunger change apparatus and method.

64/Mas/90. CPC International Inc. cholesterol Free salad Dressing.

The 23rd January, 1990

65/Mas/90. Kaskana Tulasitram. Trolley for household L.P. Gas Cylinder.

66/Mas/90. Viral Technologies, Inc. Method of producing a diagnostic test kit for detection of aids virus. (May 15, 1987; United Kingdom (Divisional to Patent Application No. 235/Mas/88).

The 24th January, 1990.

67/Mas/90. Sab Nife Power Systems Limited. "Nife Selfil". A device for automatic toppinng up of batteries whenever the electrolyte level drops below the specified level.

The 25th January, 1990.

68/Mas/90. Merlin Gerin. A low voltage miniature electric circcuit breaker. (Divisional to Patent Application No. 530/MAS/86).

69/Mas/90. Schubert & Salzer Maschinenfabrik AG. A process and apparatus for adjusting an air let spinning apparatus.

CLAIM UNDER SECTION 20(1)

OF THE PATENTS ACT, 1970

The claim made by RCA LICENSING CORPORATION under Section 20(1) of the Patents Act, 1970 to proceed the application for patent No. 165017 in their name has been allowed.

OPPOSITION PROCEEDINGS.

The opposition entered by I A E C India Limited to the grant of a Patent on Application No. 160322 made Taprogge Gesellschaft MBH as notified in the Gazette of India, Part III Section 2 dated 16th January, 1988 has been dismissed and it is ordered that a patent be granted on application for Patent No. 160322.

PRINTING SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted Specifications are avallable for sale from the Patent Office, Calcutta, and its branches at Bombay, Madras and Delhi at two rupees per copy :—

(1)

142395. 142401.

(2)

143862. 143863. 143869. (3)

143964. (4)

144114. (5)

144311. (6)

144394. (7)

144579. (8)

144871. 144907. (9)

144999. (10)

145096. (11)

145206. 145211. (12)

145290. (13)

145356. (14)

145506. (15)

145773. (16)

146014. 146028. (17)

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146452 146454 146466. (21)

146486 146499 (22)

146545. (22A)
146572.

146616. (23)

146630 (24)

146650 146659 146664. (25)

146683. (26)

146702. (27)

146716 146720 146733. (28)

(29)

146837.

(30)

146862.

146897. (31)

147155 147179. (32)

148996. (33)

PATENTS SEALED

151976	159229	161094	161098	164309	164360	164894
164900	164908	164914	164915	164916	164918	164927
164934	164938	164939	164941	164948	164952	164953
164954	164955	164956	164957	164958	164959	164960
164964	164981	164984	164988	164990	164994	165002
165003	165004	165005	165006	165007	165008	165009
165012	165013	165014	165015	165016	165018	165019

CAL—31
MAS—9
BOM—8
DEL—1

AMENDMENT PROCEEDING UNDER SECTION—57.

Notice is hereby given that SANTRADE LIMITED, an Switzerland Company, having its registered office at Alpenquai 12, 6002 Luzorn, Switzerland, has made application under Section 57 of the Patents Act, 1970 to change the address for service in application for Patent/complete specification for patent application No. 232/BOM/1987 for "A granulating device with a perforated hallow cylinder." The application for amendment and proposed amendment can be inspected free of charge at the Patent Office Branch, Todi Estate, 3rd Floor, Sun mill Compound, Lower Parel (West), Bombay-400 013 on any working day during the usual office hours or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendments may file the notice of opposition on the prescribed form-30 alongwith full written statement within three months from the date of this notification at the Patent Office Branch, Bombay.

If full written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice of opposition.

AMENDMENT PROCEEDINGS UNDER SECTION 57 OF THE PATENTS ACT, 1970.

Notice is hereby given that Reckitt & Colman S.A., France, has made an application under Section 57 of the Patents Act, 1970, for amendment of the Application, Specification and drawings of their Patent Application No. 165237, for "DEVICE FOR DIFFUSING VOLATILE LIQUIDS". The amendments are by way of correction. The application for amendment and proposed amendments can be inspected free of charge at the Patent Office, 61, Wallajah Road, Madras-600 002, or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a Notice of Opposition on prescribed Form-30 within 3 months from the date of the Notification at the Patent Office, Madras. It the Written Statement of Opposition is not filled with the Notice of opposition it shall be left within one month from the date of filing the said Notice.

COMMERCIAL WORKING OF PATENTED INVENTIONS

Electrical Engg. List No. II

The following Patents in the field of Electrical Engineering Industry are not being commercially worked in India as admitted by Patentees in the statements filed by them under section 146(2) of the Patents Act, 1970 in respect of calendar year 1988 generally on account of want of request for licences to work the Patented invention. Persons who are interested to work the said Patents commercially may contact the Patentees for the grant of a license for the purpose.

Patent No.	Date of Patent	Name & Address of the Patentee	Title of the Invention
1	2	3	4
156219	16-6-1981	Alsthom Atlantique, 38 Avenue Kleber, 75784 Paris Cedex 16, France.	An electric shunt inductance winding for an Electric Power Transport Line.
158118	5-8-1982	Alsthom-Atlantique 38 Avenue Kleber, 75784 Paris Cedex 16, France	Device for protecting metal objects situated in the environment of an intense magnetic field developed by an alternator rotor.
153631	4-2-1980	Ball Corpn. of 345 South High Street Muncie, State of Indiana U.S.A.	Crossed slot antenna.
158244	28-7-1982	Ceraver, 12 Rue de la Baume 75008 Paris France.	A Cap for an Electrical Insulator.
156792	13-7-1981	CGEE ALSTHOM, 13 rue Antonin Raynaud 92309 Levallois, Perret, France.	Apparatus for measuring single phase reactive power in an AC circuit.
157920	14-6-1982	Chloride Silent Power Ltd. 52 Grosvenor Gardens, London SWIW OAU England	Sodium Sulfur Cells.
155181	16-12-1980	Do.	Cathode Current Collectors-Methods of making such Cathode current.

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157916	5-4-1982	Compagnie Industrielle Des Telecommunications Cit-Alcatel, 12 Rue de la Baume, 75008 Paris France.	Time division exchange.
158087	7-7-1982	Do.	A combination of Interconnected microprocessors with a system of distributed control thereof.
158312	13-9-1982	Do.	A digital exchange comprising groups of terminal units.
158313	13-9-1982	Do.	A network for a time division exchange.
158314	13-9-1982	Do.	A distributed control exchange having a time-division switching network and a security system.
158366	5-4-1982	Do.	Digital Switching network.
158568	7-7-1982	Do.	Spare subscriber terminal apparatus.
142130	14-11-1975	Council of Scientific & Ind. Research (C.S.I.R.) Rafi Marg, New Delhi, India.	Improvements in or relating to electrical condenser Microphone.
142977	22-3-1975	Do.	Improved process for the electrolytic production of Iron powder/iron from iron chloride solution.
143829	24-2-1976	Do.	Improvement in or relating to electro-thermal smelting of lead from lead sulphide concentrates.
144075	21-5-1975	Do.	A device for testing continuity of blasting circuit.
146259	11-5-1977	Do.	An intrinsically safe magneto sound powered telephone.
147948	28-12-1977	Do.	An improved process for the simultaneous electrolytic production of zinc metal and manganese dioxide from zinc sulphide concentrates and manganese ores.
152856	27-9-1980	Do.	A process for the production of improved corrosion resistant zinc coatings on steel substrates by electrode position.
153515	22-12-1980	Do.	An improved process for the electrodeposition of coating on metal substrates.
153551	5-1-1980	Do.	An improved antenna device for omnidirectional radio communications.
153823	12-6-1981	Do.	An improved process for the fabrication of porous bicarbon air electrode for metal air cells and prorous bicarbon air electrodes.
154561	9-11-1981	Do.	An improved process for the production of plated metal substrates for use as flate plate collector for solar applications.
154722	8-12-1981	C.S.I.R., New Delhi, India	An improved process for black chromeplating on electroformed copper nickel foils for solar energy application.
155184	27-3-1982	Do.	An improved electrolytic cell suitable for the cathodic reduction of nitro-compounds to amino compounds.
155863	29-7-1982	Do.	An electrochemical process for the preparation of benzoldehyde for benzyl alcohol.

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156026	30-6-1982	C. S. I. R., New Delhi, India	An improved process for the electrolytic deposition of copper tin alloys from cyanide baths on metal substrates.
156218	10-9-1982	Do.	Process for the electrochemical preparation of 2-furoic acid from furfuraldehyde.
157059	30-12-1982	Do.	Improvements in or relating to lithium manganese dioxide non aqueous button cells.
157396	21-3-1983	Do.	Improvements in or relating immersion stripping of defective nickel electrodeposits from steel and stainless steel substrates.
157439	17-2-1983	Do.	An improved process for the electrodeposition of lead dioxide on titanium substrates.
157440	15-2-1983	Do.	An electrochemical process for the preparation of n-butyric acid from N-butanol using nickel oxyhydroxide anode.
157507	31-3-1983	Do.	Process for the electrochemical preparation of alkali metal chromate from chromium salts.
158256	23-4-1983	Do.	An improved process for the preparation of anhydrous magnesium chloride for use is cell feed for the electrolytic production of magnesium metal.
158816	2-2-1983	Do.	Digital set point proportional controller device for use with precision unit operations in the chemical industry.
159410	7-8-1984	Do.	An improved process for the manufacture of silicon varactor diodes from epitaxial wafer.
160011	6-6-1984	Do.	A modified starter for a single phase induction motor.
160088	22-1-1984	Do.	An electronic control device for automatically controlling cathodic or anodic potentials for the protection of electrical equipment/installations.
161055	12-6-1985	Do.	Improved process for electrochemical synthesis of polypyrrole.
161135	10-4-1984	Do.	A digital sine and cosine function generator for use in electronic instruments which require discrete frequencies.
162244	5-12-1985	Do.	A method of making a sensor for multi ion sensitive electrode and voltametric applications and the sensor so made.
162352	8-11-1985	Do.	An improved process for the preparation of ruthenised titanium electrodes.
155208	18-12-1980	Dr. Beck & Co., AG of 2000 Hamburg, 28 Grossmannstragse 105 Federal Republic of Germany.	Process for the production of winding wires having two insulting layers of different materials.
154850	24-9-1980	Drosse U.K. Ltd., 197 Knightsbridge, London SW7 1RJ, England.	Method of assembling electroprecipitator discharge electrode and discharge electrode for the same.
159046	14-4-1983	Do.	Circuit for supplying additional voltage pulses to electrostatic precipitators.
160529	2-7-1984	Do.	Electro precipitator discharge Electrodes.
152994	10-8-1979	Ellicott Brothers (London) Ltd., Marconi House, New Street, Chelsmford Essex CMI IPL England.	Display units for head up displays.
159677	18-4-1983	Exxon Research & Engg. Co. Florham Park, New Jersey U.S.A.	Velocity well logging apparatus.

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154510	22-7-190	Georges Albert bulique of 29 Rue diu Docteur Finlay, 73015, Paris.	Improvements in or relating to apparatus for recording Control and early detection of cardiovascular diseases.
158465	3-11-1982	La Telemecanique Electrique 33 bis Avenue du marechal-Joffre 92000 Nanterre, France.	A mechanically controlled switch with automatic opening for a protective limiting device.
158466	3-11-1982	Do.	A contactor apparatus.
158467	3-11-1982	Do.	Contactor apparatus.
158481	13-9-1982	La Telemecanique Electrique 33 bis Avenue duo Marechal joffre, 92000 Nanterre France.	Electrical apparatus particularly a relay or a small-size contactor.
158813	14-1-1983	Do.	A device for resiliently holding a contact bridge in combination with said contact bridge.
158905	2-3-1983	Do.	Printed circuit board incorporating a connecting terminal.
159760	24-11-1982	Do.	A contractor having self-protection means against the effect of the forces of repulsion between the contracts.
159958	8-3-1983	Do.	Electrical connection device with ready access protected terminals of set screw type.
159959	8-3-1983	Do.	A contractor with a removable subset of auxiliary switches.
160661	8-3-1983	Do.	Current reverser with electromanetic control and mechanical locking device.
147667	19-10-1976	Mobil Tyco Solar Energy Corpn. 16 Hickory Drive, Waltham, Massachusetts U.S.M.	Solar Cell unit.
153555	15-1-1980	Do.	System for monitoring the growth of crystalline body of selected material from a liquid melt.
159900	21-10-81	Do.	A method of making a photovoltaic semiconductor solar cell.
160262	9-1-1984	Do.	Method of fabricating solid state semiconductor devices.
148026	25-10-1977	Olivier, Auguste Louis Jean 12-17 Avenue Lavoisier, 78 Maisons Laffitte, France.	An apparatus for subjecting a material to electromagnetic waves.
160165	26-3-1984	SAFT 156 Avenue de Metz, 93230 Romainville, France.	A method of manufacturing an electrode for an electrocuemi call cell and an electrode manufactured by the method.
150351	13-12-1978	Siemens-Albis AG Albistriederstrasse 245/8047 Zurich, Switzerland.	Improvements in or rolating to radar units for angular measurements.
149599	19-5-1978	Societe De Paris Et Du Rhone 36 Avenue Jean, Mermoz, Lyon 8 eme, Rhone, France.	Collector assembly for an alternator.
150030	19-5-1978	Do.	Auxiliary rectifier bridge for a three-phase alternator.
154302	11-4-1980	Do.	Voltage regulator with a load signal lamp for an automotive vehicle alternator.
156164	3-6-1981	Sony Eveready Inc. 22-3 Shibuya 2 Chome Shibuya-ku, Tokyo, Japan.	Alkaline cell.

(1)	(2)	(3)	(4)
157089	19-8-1981	Stock Equipment Company 731 Hannu Building, Cleveland Ohio 44115, USA.	Product to frequency converter.
159378	22-6-1983	Tesa S.A. Rue Bugnon 38, 1020 Renens, Switzerland.	Capacitive device for the measurements of displacements.
148272	19-6-1978	The General Electric Company 1, Stanhope Gate, London W1A 1EH, England.	Improvements in or relating to moving coil electrical indicating instruments.
155620	28-2-1981	Do.	Improvemet in or relating to apparatus for fault detection.
152698	23-3-1982	Do.	Apparatus for protecting electric power transmission system against faults.
158133	1-6-1982	Do.	Apparatus for supporting an assembly of unit of electrical or electronic apparatus.
158551	2-8-1982	Do.	A control system in combination with induction motor for controlling the torque of the induction motor.
159113	30-10-1982	Do.	Apparatus for determining the location of a fault occurring in an electric power transmission line.
159455	14-2-1983	Do.	Electro-acoustic calling device.
159180	18-1-1983	The Marconi Company Limited The Grove, Warren Lane, Stanmore, Middlesex, England.	A frequency hopping radio communication system.
155303	20-1-1981	Thomson CSF, of 173 Bl Haussonann, 75008 Paris, France.	A diversity Radio transmission System.
162088	23-1-1985	Vacuum Interrupters Ltd. 68 Ballards Lane, Finchley London N3 2BU, England.	Contact for high current electrical switch devices.
160445	19-10-1983	Walther & Cie Aktiengsellschaft Waltherstrasse 51-D-5000 Koln 80 (Dellbruck) F.R.G.	Electrostatic dust separator.

COMMERCIAL WORKING OF PATENTED INVENTIONS

CHEMICAL LIST NO. II

The following patents in the field of Chemical Engineering Industry are not being commercially worked in India as admitted by patentees in the statements filed by them under Section 146 (2) of the Patents Act, 1970 in respect of calendar year 1988 generally on account of want of for licences to work the patented inventions. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a license for the purpose.

Patent No.	Date of Patent	Name & Address of the Patentee	Title of the Invention
1	2	3	4
149470	30-6-1978	Aksjeselaskapet Norcem., Haakon VII's Gate 2, Oslo 1, Norway.	Process for manufacturing concrete of high corrosion resistance.
156072	8-6-1981	B.N.F. Metal Technology Centre, Grove Laboratories, Denchworth Road, Wantage, Oxfordshire OX 12 9BJ, England.	Continuous method for removing copper from lead.
158809	4-1-1983	Borden (UK) Limited, North Baddesley, Southampton S05 9ZB, England.	A method of making foundry moulds and cores.

(1)	(2)	(3)	(4)
154749	22-9-1980	Centre De Recherches Metallurgiques Centrum Voor Research In De Metallurgie, 47 Rue Montoyer, 1040 Brussels, Belgium.	Method of continuous heat treatment of steel sheet.
160786	19-3-1981	C.P.C. International Incorporated International Plaza, Englewood Cliffs, New Jersey 07632, U.S.A.	A process for the preparation of an adhesive composition.
142348	8-1-1976	Council of Scientific & Industrial Research (C.S.I.R.), Rafi Marg, New Delhi, India.	A process for the extraction of gallyum from sodium aluminate liquors (bayer liquor) obtainable from alumina-producing plants.
142955	14-4-1975	Do.	Manufacture of potassium silicate by ion exchange method.
143334	9-11-1975	Do.	Process for the extraction of Nickel and cobalt values from lateristic and limonotic nickeliferous ores.
143731	16-2-1977	Do.	Improvements in or relating to Breath alcohol analysers for detecting alcohol in breath.
143745	4-6-1976	Do.	Preparation of iron oxide black and red pigments.
144000	13-6-1975	Do.	Improvements in or relating to soak cleaning of steel contaminated with oil.
145213	11-10-1976	Do.	Improved process for the preparation of pure potassium nitrate.
145466	29-12-1976	Do.	An improved process for the removal of mineral matter in graphite.
146232	19-10-1977	Do.	A process for the preparation of inorganic green pigment
147705	23-12-1977	Do.	Process for the preparation of urea nitrate.
148164	14-9-1977	Do.	Process for the preparation of binder material suitable for briquetting of char fines and smokeless domestic fuel.
148321	25-9-1978	Do.	Improved process for the preparation of sodium stearoyl-2-lactylate.
148400	24-2-1978	Do.	A process for the preparation of a blasting agent/composition of mining tunnelling and other excavation work.
148539	28-2-1979	Do.	A process for the preparation of active silica from paddy husk.
148657	25-5-1978	Do.	Process for the production of potassium carnalite 99% pure.
148658	25-5-1978	Do.	Process for the recovery of nitrate values of the mother liquor obtained after the separation of potassium carnallte as potassium.
149251	17-5-1979	Do.	Process for manufacturing of non-metallic backing strip for use in metal welding.
149603	10-8-1979	Do.	An impsoved process for preparation of reformation catalyst for use in reforming of hydrocarbons.
149935	5-9-1979	Do.	Improved process for preparation or pure Beta-ionone.
150416	31-12-1979	Do.	Preparation of water displacing rust preventive oil for protection of metal from corrosion.

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151036	25-1-1979	Council of Scientific & Industrial Research, (CSIR), Rafi Marg, New Delhi, India	A process for preparation of ammonium vendate from vanadium bearing sludge of aluminium plant by liquid ion exchange method.
151184	28-2-1979	Do.	A process for the preparation of sodium silicate.
151654	18-2-1980	Do.	A process for the isolation of pure neuraminidase.
151656	17-5-1979	Do.	An improved process for the preparation of anisole o-cressol and 2, 6- xylenol.
151661	19-4-1980	Do.	A process for the preparation of anti-corrosion primer.
152041	18-2-1980	Do.	Process for the preparation of corrosion inhibiting additive composition for steel pipes of heat exchangers.
152241	5-6-1979	Do.	A process for purification and enrichment of low grade molybdenite concentrates.
152242	5-6-1979	Do.	An improved process for purification and enrichment of low grade molybdenite concentrates.
152857	27-8-1980	Do.	Improved heat resistant paints for steel and like metal structures.
153299	19-9-1980	Do.	A process for the preparation of a vegetable self tanning material from caesalpinis or coriaria dividivi ponds for use in leather industry.
153337	30-10-1980	Do.	A process for the preparation of sea water corrosion inhabitors additive substance from ripe froute of a vegetable plant cordia lothil for protection of metal surface.
153384	2-2-1981	Do.	A process for the preparation of commercial grade vanadium pentoxide and by-product sodium sulphate from vanadium sludge of alumina industry.
153508	19-12-1979	Do.	Process for the production of heat absorbing glass.
153841	11-5-1981	Do.	A process for the preparation of aluminium, calcium and ferrous and the like metal values from high ash washery tailings, fly ash and alike coal waste materials.
153877	18-3-1980	Do.	A process for the preparation of improved polymeric acrylic resin emulsion for use as Binders for pigments in leather industry.
154064	3-7-1981	Do.	An improved process for delication of Black/Green liquors obtained as waste liquors of paper and Allied Industries.
154335	22-8-1981	Do.	A process for production of iron ore concentrate from low grade iron ores having hydrated iron oxide.
154752	4-1-1982	Do.	An improved process for the extraction of metal values of copper, lead and zinc from sulphur ores or ores concentrates.
154753	7-1-1982	Do.	Improvements in or relating to production of vanadium pentoxide flakes from vanadium bearing slags.
154929	28-1-1982	Do.	Process for the preparation of improved primer paints for protection of rusted steel structures.

1	2	3	4
155137	25-10-1980	Council of Scientific & Industrial Research, (CSIR), Rafi Marg, New Delhi (India).	A chemical process for demineralisation of carbonaceous materials such as coal and coke.
155140	21-11-1980	Do.	Improved process for the extraction of metal values like copper, nickel and cobalt from copper converter slags.
155204	11-8-1980	Do.	A process for manufacture of latoblocks (building blocks) using laterite soils.
155444	27-2-1981	Do.	Process for the extraction and sulphrization of JOJ BA oil for use as a lubricant.
155779	19-5-1982	Do.	An enzymatic process for the preparation of tamarind concentrate.
156460	12-6-1981	Do.	Production of stabilized coat oil slurry.
156912	30-9-1981	Do.	An improved anti-corrosive paint particularly useful as primer in Marine environment.
157060	30-12-1982	Do.	An improved high build anticorrosive paint composition for use in marine environments.
157061	30-9-1981	Do.	Improved process for the disproportionation of toluno to a mixture of benzene and xylene.
157110	7-1-1983	Do.	A process for the preparation of precipitated calcium carbonate from carbide lime sludge.
157254	14-10-1981	Do.	An improved process for the desulphrisation of ferrous melts in the iron and steel industry.
157263	10-11-1982	Do.	An improved process for soldering of copper and ferrous work pieces.
157264	13-8-1982	Do.	Apparatus and method for the simultaneous production of hydrogen and carbon monoxide separately or as a gaseous mixture.
157487	3-2-1983	Do.	A process for the preparation of modified cellulose acetates suitable for making membranes for use in reverse osmosis.
157728	24-3-1983	Do.	A process for the synthesis of 2 Bis (2-chloroethyl) amino 3, 6 Diaryl 3-4, dihydro 1, 3, 2 oxazaphosphorin-2-oxides.
157865	25-6-1983	Do.	Process for the preparation of plasticizer material for use in plastic industry.
157886	19-5-1982	Do.	A process for chemical phosphating of ferrous substrates.
158085	25-6-1982	Do.	An improved process for the preparation of stable manganous oxide (MnO).
158257	16-6-1983	Do.	An improved continuous process for the preparation of M-Dinitro benzene by catalytic hydrogenation.
158331	19-5-1982	Do.	A process for the recovery of lead and zinc values from moore cake.
158462	23-10-1982	Do.	A process for the preparation of catalyst for isomerisation of alkyl aromatic compounds.
158471	24-7-1982	Do.	Process for the preparation of diosgenin horse radish peroxidese conjugates for use in the determination of diosgenin in plant material.

1	2	3	4
158491	21-9-1983	Council of Scientific & Industrial Research, (CSIR), Rafi Marg, New Delhi, India	An improved process for the preparation of N-alkyl-di-isopropanolamines.
158528	20-8-1982	Do.	A process for the production of modified sal seed metal by extraction of tannin therefrom.
158655	26-11-1983	Do.	Improvements in or relating to the preparation of lithium tetra chloroaluminate.
159041	17-3-1983	Do.	Process for the preparation of improved cationic fat liquor from vegetable oil.
159146	31-3-1983	Do.	A process for the preparation of 3-8-carboxymethyl other glucose 6-phosphate dehydrogenase enzyme conjugates.
159414	18-6-1983	Do.	Electrochemical process for the preparation of 2, 5-dihydro 2, 5 dimethoxy furan from furan.
159476	6-6-1984	Do.	A process for the preparation of cocoa butter substitute from Madhuca butyracea fat.
159819	31-7-1985	Do.	An improved process for the preparation of monoalkyl ester of azealaic acid.
159899	21-10-1981	Mobil Solar-Energy Corporation, 16 Hickory Drive, Waltham, Massachusetts 02154, (USA)	A method for plating nickel on to a silicon body.
159926	8-1-1985	Council of Scientific & Industrial Research, (CSIR), Rafi Marg, New Delhi, India.	An electrolytic process for the preparation of high purity boric acid from borax.
160043	19-10-1984	Do.	Process for the preparation of a coloured polysaccharide particulate material.
160141	4-8-1984	Do.	A process for the preparation of alkali/alkaline earth metal salts of substituted α 3-penta d phenoxy isobutyric acid.
160170	21-7-1984	Do.	A process for manufacture of 2, 4 dichloro-5-pentadecyl phenoxyacetic acid.
160197	23-10-1982	Do.	A catalytic process for the isomerisation of alkyl aromatic compounds.
160264	1-7-1985	Do.	A process for the production of spherical Agar Beeds.
160274	27-5-1985	Do.	Improvements in or relating to the preparation of water borne self curing zinc silicate coatings.
160279	25-1-1985	Do.	A process for the preparation of a catalyst useful for the selective conversion of ethulene into aromatic hydrocarbons containing 6 to 8 carbon atoms.
160355	26-9-1984	Do.	An improved process for the preparation of aluminium or aluminium alloys.
160402	2-5-1984	Do.	An improved process for the preparation of (±) Rhezidine hydrochloride.
160404	6-7-1983	Do.	Process for the manufacture of foil type resistance strain gauge and the strain gauge manufactured thereby.
160474	7-2-1985	Do.	Improved process for the preparation of meta-nitro-chloro-benzene.
160478	18-3-1985	Do.	An improved process for the extraction of copper, nickel, cobalt manganese metal values and from deep sea manganese modules.

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160479	18-3-1985	Council of Scientific & Industrial Research (C.S.I.R.), Rafi Marg, New Delhi India.	Improved process for the extraction of copper, nickel and cobalt metal values from deep sea manganese nodules.
160520	10-12-1984	Do.	A process for the extraction of cobalt, nickel and copper from copper converter slags with ammonium sulphate roasting at low temperatures.
160535	10-12-1984	Do.	A process for the extraction of copper, nickel and cobalt metal values from manganese sea nodule.
160536	10-12-1984	Do.	A process for the extraction of copper, nickel and cobalt metal values from sea bed manganese nodules.
160541	22-12-1983	Do.	An improved process for the production of carnallite from sea or sub-soil bitterns containing sulphate ions by solar evaporation.
160754	16-5-1986	Do.	An inhibitor composition for protection of metal alloys from sea water.
160756	25-1-1985	Do.	Process for the preparation of new catalyst composite material useful for the conversion of alkanols to hydrocarbons.
160829	27-2-1984	Do.	A process for the preparation of esters of substituted 2, 2-dimethyl 3-cyclopropane acetic acid.
160841	7-2-1984	Do.	A process for the preparation of 2, 2-dimethyl-3-(N-propul) cyclopropane acetic acid.
160974	29-2-1984	Do.	A process for the preparation of esters of substituted 2, 2-dimethyl-3-cyclopropane acetic acid.
160979	14-10-1985	Do.	A process for the preparation of thicker material from the plant Litsea polyantha for use in the textile printing industry.
161056	9-7-1984	Do.	An improved process for the preparation of zinc sulphide silver phosphor blue photoluminescent materials.
161158	15-5-1985	Do.	An improved process for the isolation of sangguinarine and dihydroanguirine from the seeds of Argemone mexicane.
161321	27-5-1985	Do.	Improvements in or relating to the process for the preparation of 3-methyl-But-2 ene-1-yl acetate.
161329	24-9-1984	Do.	Process for the production of ergometrine by fermentation using a new strain claviceps pasapali.
161411	18-7-1985	Do.	An improved process for the preparation of manganese sulphate.
161412	21-6-1985	Do.	Improvements in or relating to electro-chemical synthesis of polyindole.
161457	13-8-1984	Do.	A process for the preparation of a composition useful for coating rusted surfaces.
161612	4-7-1984	Do.	An improved process for the preparation of sym-N, N-disubstituted diaryl urea compounds.
161613	4-7-1984	Do.	A method for the preparation of adhesive crayon.

1	2	3	4
161644	9-7-1984	Council of Scientific & Industrial Research (C.S.I.R.), Rafi Marg, New Delhi India.	A process for the recovery of lead from a complex sulphide ores concentrates.
161822	26-8-1983	Do.	An improved process for the preparation of 4-amino-3-nitro-benzo phenone.
147590	19-12-1977	Council & Co. Ag. 2000 Hamburg 28, Grossmannstrasse 105, Federal Republic of Germany	A process for the preparation of an aqueous electrically insulating } varnishes.
154556	19-8-1980	Do.	Process for the manufacture of insulated winding wires through extrusion of thermoplastics.
154309	21-5-1980	Dyno Industrier As Tolloygaten 22, Oslo 1, Norway.	Cap Sensitive powdered explosive composition.
155209	24-12-1980	Etuebbe Legast Chemin A Jeandin-22/8011 Thontes, Geneva, Switzerland.	Process and apparatus for the steam extraction of essential oils from vegetable materials
153421	5-12-1979	Exxen Research and Engineering Co., 200 Park Avenue, Florham Park, New Jersey, (U.S.A.)	Process for converting hydrophilic water containing regenerated cellulose membranes to membranes useful for separating organic liquids.
153466	19-12-1979	Exxon Research and Engineering Company, 200 Park Avenue, Florham Park, New Jersey, U.S.A.	A process for preparing supported Nickel-Cobalt-Silica coprecipitated catalyst.
154509	21-7-1980	Do.	Method of stabilizing iso-olefin polymer slurries.
158081	27-5-1982	Do.	A fuel oil composition.
158487	27-5-1982	Do.	An improved middle distillate fuel composition.
158539	5-11-1982	Do.	A process for the removal of CO_2 from a gaseous stream containing CO_2.
158654	31-8-1982	Do.	Process for the production of helogenated definically unsaturated rubber.
148664	26-6-1978	Do.	Lubricating oil composition-- a process for preparing the same.
158915	2-5-1983	Do.	A cyclic process for the removal of acid gases from a feed gas stream.
159284	8-2-1983	Do.	Solvent dewaxing process for freeing hydrocarbon oils from wax.
159288	11-4-1983	Do.	Process for the continuous production of a halogenated polymers.
159334	12-5-1983	Do.	Process for preparing a calcined support catalyst.
159835	12-5-1983	Do.	A process for treating a gaseous stream containing CO_2 to remove said CO_2.
159929	23-12-1983	Do.	A distillate fuel composition.
160096	22-11-1983	Do.	A process for producing an ammonia synthesis gas from a methane-containing feed stock gas.
160465	13-3-1984	Do.	Improved process for the manufacture of halogenated polymers.
160585	31-1-1984	Do.	A process for producing a hydrogen-rich gas.
161151	21-7-1980	Do.	A method for the preparation of non-agglomerating homopolymers of C_4 -C_7 isoolefins or butyl rubber copolymers.

1	2	3	4
158669	22-11-1982	Glaverbel Chaussee de la Hulpe 166, B-1170 Bruxelles, Belgium.	A process for forming a refractory mass.
159478	23-5-1983	International Paint Public Limited Company, Henrietta House, 9 Henrietta Place, London WIA IAD, England.	Anti corrosive coating compositions.
152477	26-6-1979	I.S.C. Smelting Limited of St. James's Square, London SWIY 4LD, England.	Process for producing a zinc/lead oxide product suitable for briquetting.
151106	8-5-1979	Mitsui Toatsu Chemicals Inc., 3-2-5 Kasumigaseki, Chiyoda-ku, Tokyo, Japan.	An improved process for synthesizing urea from ammonia and carbon dioxide with fil-mination of possible explosion of the tail gas from said process.
153781	25-1-1980	Mobil Solar Energy Corporation, of 16 Hickory Drive, Waltham, Massachusetts, U.S.A.	Apparatus for and method of Growing crystalline body of silicon from a melt.
154501	22-5-1980	Do.	Method of growing a crystalline body silicon from a silicon melt.
153503	14-12-1979	National Research Development Corporation, or Kingsgate House 66/74, Victoria Street, London, SWIE, GSV, England.	A method for the sterilisation of surfaces or liquids and surfaces thus sterilised.
159336	25-5-1983	Nitto Kagaku Kogyo Kabushiki Kaisha 5-1, Marunouchi 1-chome, chiyoda-ku, Tokyo, to, Japan.	Process for preparing acrylamide polymers.
155595	18-3-1981	Norsk Hydro A.S.Bygdy Alle 2, Uslo 2, Norway.	Method and apparatus for the gaseous reduction of iron ore to sponge iron.
157483	3-2-1982	Do.	Improved process for pan grannulation of nitrogenous fertilizer products.
159921	8-9-1983	Do.	A method for the production of stabilized ammonium nitrate compositions.
154408	7-6-1980	Pfizer Inc., of 235 East 42nd Street, New York, State of New York, U.S.A.	Process for preparing a magnatically stable powder.
154693	15-9-1980	Do.	Process for deodourizing α—aspartyl—αphenylamine alkyl esters.
154694	15-9-1980	Pfizer Inc., 235 East 42nd Street, New York, U.S.A.	Process for the preparation of L-aspartic acid N-thiocarboxy-anhydride.
157669	4-1-1982	Do.	A process for the preparation of Bis-esters of methanediol with acetorides of ampicillin or amoxicillin and penicillanic acid 1, 1-dioxide.
157712	16-2-1982	Do.	Process for the preparation of penicil anic acid esters.
158113	3-6-1982	Pfizer Corporation Calle 15/2, Avenida Santa Isabel, Colon, Republic of Panama.	Process for preparing novel bis-triazole derivatives.
158311	10-9-1982	Pfizer Inc. 235 East 42nd Street, New York, State of New York, U.S.A.	Process for preparing 1—(3-Benzyloxyphenyl) —1, 1-Dimethylheptane.
158333	30-6-1982	Do.	Process for preparing intermediates for production of benzothiazine carvoxamides.
158365	30-3-1982	Do.	A process for preparing chiral 2—(2-Benzyl-3-mercaptopropionyl) amino-1-alkanols.
158469	28-4-1982	Do.	A process for preparing water soluble benzothiazine dioxide salts.
158870	2-45-1982	Do.	A process for producing new polycylic ether antibiotic.

1	2	3	4
159273	22-9-1982	Pfizer Inc. 235 East 42nd Street, New York, State of New York, U.S.A.	A process for preparing piroxicam.
159362	9-2-1982	Do.	Process for the preparation of penicillanoyl oxymethyl penicillanate derivatives.
159366	11-8-1982	Do.	Process for preparing beta lactamase inhibiting agents.
159679	15-6-1983	Pfizer Corporation 15/2 Avenida Santa Isabel, Colon, Republic of Panama.	A process for preparing a topical anti-inflammatory composition.
159834	22-3-1983	Pfizer Inc. 235 East 42nd Street, New York, State of New York, U.S.A.	A process for the preparation of 2-Guanidino-4—(2 substituted—amino-4- imidazolyl) thiazoles.
160449	14-12-1983	Do.	A process for preparing spiro-3-heteroazolones and pharmaceutically acceptable salts thereof.
160683	28-4-1982	Do.	Process for preparing a crystalline-non hyproscopic, water soluble N—(2 pyridyl) 2—methyl-4-hydroxy 2H 1, 2—Benzothiazine 3 carboxamide 1, 1-dioxide base salts.
160684	7-2-1984	Do.	A process for preparing a base salt of piroxicam deposited on a pharmaceutically acceptable carrier.
161509	8-4-1985	Do.	A process for preparing-a-2-oxindohle 1, carb, xamide compounds.
162090	21-2-1985	Do.	Process for preparing 2-oxindole-1-carboxamides compounds and a pharmaceutically acceptable base salt thereof.
161611	3-7-1984	Provesan S.A. 1 Place St, Gervais, 1211 Genova, Switzerland.	Process for the preparation of 7—(1-pyrrolyl) derivatives of substituted 1-ethyl-1, 4-dehydro-4-oxoquinoline-3-carboxylic acids and substituted-1-ethyl-1, 4-dihydro-4-oxo-1, 3-Naphthyridine-3-carboxylic acids.
159883	16-6-1983	Rhone Poulenc Sante 'Les Miroirs', 18 Avenue D'Alsace, 92400 Courbevoie, France.	Process for the preparation of 40 hydroxyquinolines.
146622	27-9-1977	Ruhrchemie AG. Bruchstrasse 219, obarhausen 13, Federal Republic of Germany.	Process and apparatus for the gasification of a solid fuel.
151655	15-5-1979	Do.	Production of gas mixtures containing hydrogen and carbon monoxidevia the endothermic partial oxidation of organic compounds and apparatus therefor.
152244	6-6-1979	Do.	Periodical sluicing of residues in a process for the production of syntehsis gas and an apparatus therefor.
159185	8-2-1983	Do.	Process for preparing a diesel engine fuel having improved combustion properties.
160142	10-5-1983	Do.	Process and apparatus for the producioon of synthesis gas.

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152053	21-2-1979	Santanu Roy, 13 Nanda Kr. Ch. Lane, Calcutta-700006.	A process for manufacturing a polymeric foam.
145230	29-9-1977	ShellInternational Research Moat schappij B.U. of Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Process and reactor for the partial combustion of pulverized coal.
145517	18-10-1977	Do.	Process for the preparation of a hydrogen rich gas.
145882	19-10-1977	Do.	Process for the separation of dry particulate matter from a hot gas.
146516	26-10-1977	Do.	Esterification of hydrocarbyl substituted succinic anhydrides.
147049	21-11-1977	Do.	A process for the preparation of crystalline silicodes.
147159	18-10-1977	Do.	Process for the preparation of hydrocarbons.
147317	22-12-1977	Do.	Method of manufacturing porous water permeable and not frost. Susceptire tervacotta pavings usable as ground coating.
147546	19-10-1977	Do.	Improvements in a process for reactivating silver catalysts.
147547	19-10-1977	Do.	Improvements in the process for the production of ethylene oxide.
147701	21-11-1977	Do.	A process for the preparation of a catalyst composition.
147721	23-3-1977	Do.	Process for the production of ethylene oxide.
147831	22-7-1978	Do.	Process for the preparation of hydrocarbons.
148037	10-4-1978	Do.	Process for the catalytic cracking of crude petroleum fractions.
148281	27-2-1978	Do	Process for the preparation of paraffinic and lefinic hydrocarbons.
148558	14.3-1978	Do.	A process for the dehydrogenation of hydrocarbons.
150526	16-1-1979	Do.	A process for the preparation of an aromatic ydrocarbon mixture.
151186	29-1-1979	Do.	Process for the catalytic cracking of hydrocarbon oils.
155447	3-3-1981	Do.	Process for the production of an elastomeric copolymer of an aromatic vinyl compound and a conjugated diene, suitable for use in the tread portion of a pneumatic tyre.
157490	16-11-1981	Do.	A process for preparing alkenes by a non-oxidative dehydrogenation process.
158971	24-5-1982	Do.	A process for the preparation of pyrethroid insecticide esters.
159456	2-3-1983	Do.	Process for recovering a glycol from an electrolyte containing aqueous solution.
160759	13-3-1985	Do.	Process for preparing high activity free flowing olefin polymerizations lidtcatalyst composition.
161207	12-6-1984	Do.	A process for preparing elastomeric copolymers.
161543	10-6-1983	Do.	Process for the preparation of a tetralyl-substituted-4-hydroxy coumarin compounds.

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158958	29-9-1982	Societe De Conseils De Recherches E D'Applications Scientifiques (SCRAS) 264 rue due Faubourg Saint Honore, 75008, Paris, France.	A process of preparing iopro pylamino pyrimidine derivatives.
159147	8-4-1983	Do.	A process for the preparation of modified clays to be used as active ingredients in medicaments.
160104	13-3-1984	Do.	A process for preparing 1, 3-Dihydro-6-methyl-7-hydroxy furo-(3-4-c) pyridine derivatives and pharmaceutically acceptable acid addition Salts thereof.
146260	9-1-1978	Stamicarbon B.V., P.O. Box 10, Geleen, The Netherlands.	Preparation of melamine from urea.
147228	26-10-1977	Do.	Process for reparation of NH3 and CO2 from mixtures containing them.
150575	12-4-1979	Do.	Process for the recovery of cyclohexanone oxime.
154002	3-4-1980	Sulzes Brothers Limited, CH 8401 Winterthur, Switzerland.	A method of producing very pure magnesium oxide.
160503	9-4-1984	TBA Industrial Products Limited, 20S. Mary's Parsonage, Manchester M3 2NL, England.	Process for the manufacture of laminafe structures.
148637	6-3-1978	The Badger Company Inc., 1, Broadway, Kendell Square, Cambridge, Massachutts, U.S.A.	Process for improving the quality of fluidization of a fixed fluidized bed of reactants and catalysts and fixed fluidized beds so improved.
151034	10-1-1979	The Board of the Rubber Research Institute of Malaysia, 260 Jalan Ampang, Kuala Lumpur, Malaysia.	A method of stabilising hard latex against coagulation.
154762	10-10-1982	The Goodyear Tire & Rubber Company, 1144 East Market Street, Akron, Ohio 443160001, U.S.A.	Process for the synthesis of unsaturated aryl amides.
157255	16-10-1981	Do.	Process for removal of sulfur compounds from a gas stream.
158094	1-3-1982	Do.	Antioxidant compositions.
158674	21-12-1982	Do.	A procets for the purification of a gas stream
160827	6-1-1984	Do.	A procers for the modification of a halomethylated latex.
160959	26-2-1985	Do.	A process for preparing a carboxylterminated polymer.
158994	9-12-1982	The Malaysian Rubber Producer's Research Association, Brickendobbury, Hertford SG 13 8NL, England.	A method of making epoxidized cis 1, 4-polyisoprene rubber.
156837	29-5-1981	The M.W. Kellogg Company, 3 Greenway Plaza East, Houston, Texas 77046, U.S.A.	Process and apparatus for heating hydrocarbons to form hot hydrocarbons reaction products in petroleum and chemical processes.
159764	5-8-1983	Do.	Process for the production of ammonia synthesis gas.
151159	31-10-1979	Toyo Engineering Corporation, 5-2 Kasumigaseki, 3-chome, Chiyoda-ku, Tokyo, Japan.	Process for preparation of urea.
154849	16-9-1980	Do.	A spouted bed grannulation process.
157607	2-3-1982	Do.	Process for preparation of polymeric substance or a liquid product containing polyme c substance.
157094	11-9-1981	Ube Industries Limited, 12-32, Nishi Honmachi, 1-Chome, U-beshi, Yamaguchi ken, Japan.	Process for producing hydroxylamine sulfate.
158132	27-4-1982	USS Engineers and consultants inc., 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Hydraulic refractory cementitious formulation.

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163278.

RESTORATION PROCEEDING

Notice is hereby given that an application for restoration of Patent No. 147362 dated the 11th March 1977 made by Sham Bhalchandra Anturkar on the 14th February 1989 and notified in the Gazette of India, Part III, Section 2 dated the 17th June 1989 has been allowed and the said Patent restored.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specification as shown in the following list.

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स्वीकृत सम्पूर्ण विनिर्देश

एतद्द्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से 4 महीने या अग्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम 1972 के तहत विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक न हो के भीतर कभी भी नियंत्रक, एकस्व को ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध सम्बन्धी लिखित वक्तव्य; उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिएं ।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तराष्ट्रीय वर्गीकण के अनुरूप हैं ।"

नीचे सूचीगत विनिर्देशों की सीमित संख्यक में मुद्रित प्रतियां, भारत सरकार बुक डिपो, 8 किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथा समय उपलब्ध होंगी । प्रत्येक विनिर्देश का मूल्य 2/- रु. है । (यदि भारत के बाहर भेजे जाएं तो अतिरिक्त डाक खर्च) । मुद्रित विनिर्देश की आपूर्ति हेतु मांग-पत्र के साथ निम्नलिखित सूची में यथा प्रदर्शित विनिर्देशों की संख्या संलग्न रहनी चाहिए ।

रूपांकन (चित्र आरेखों) की फोटो प्रतियां यदि कोई हों; के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता, द्वारा विहित लिप्यान्तरण प्रभार (उक्त कार्यालय से पत्र व्यवहार द्वारा सुनिश्चित करने के उपरांत उसकी अदायगी पर की जा सकती है । विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रु. है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है ।

CLASS : 193, 25-D 166061

Int. Cl. : C 04 b 41/00.

METHOD FOR PRODUCING A SELF-SUPPORTING BODY.

Applicant : LANXIDE TECHNOLOGY COMPANY, LP, TRALEE INDUSTRIAL PARK, NEWARK, DELAWARE 19711, U.S.A.

Inventors : (1) MARC S. NEWKIRK, (2) MICHAEL K. AGHAJANIAN.

Application No. 164/Cal/1987 filed March 03, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcuta.

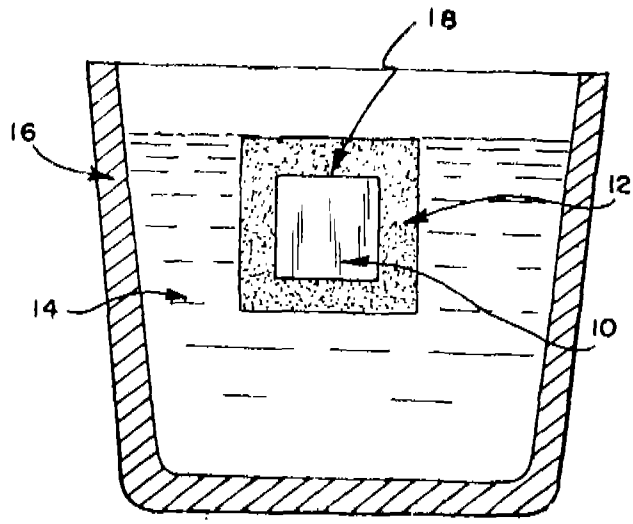
15 Claims

A method for producing a self-supporting body comprising :

(a) heating a parent metal in a substantially inert atmosphere to a temperature above its melting point to form a body of molten metal, and contacting said body of molten parent metal with a mass comprising a boron source, selected from the group consisting of boron and metal boride;

(b) maintaining said temperature for a time sufficient to permit infiltration of molten parent metal into said mass and to permit reaction of molten parent metal with said boron source to form a parent metal boride; and

(c) permitting said infiltration and reaction to continue for a time sufficient to produce said self-supporting body comprising a metallic phase and parent metal boride.



Compl. specn. 29 pages Drg. 5 sheets

CLASS : 85-L 166062

Int. Cl. : B 01 j 19/00.

COMBUSTION DEVICE FOR THE SELECTIVE INCINERATION OR CARBONIZATION OF WASTE MATERIALS.

Applicant & Inventor : JAMES FRANKLIN ANGELO II, OF P.O. BOX 55275, LITTLE ROCK, ARKANSAS-72225, UNITED STATES OF AMERICA.

Application No. 176/Cal/1987 filed March 06, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcuta.

12 Claims

A combustion device for selectively incinerating, or carbonizing by a process of controlled devolatilization, a carbonaceous feed material comprising :

(a) an elongated cylindrical kiln;

(b) means operable to introduce said feed material into one end of said kiln, move it longitudinally through said kiln in the form of a tumbling bed at the lower portion thereof, and to discharge remaining solid material from the lower end thereof;

(c) means operable to elevate the temperature of said feed material to either incineration or carbonizing temperature of the kiln, only until the desired temperature is obtained;

(d) means operable to introduce air into the full length of said kiln, in the upper portion thereof, so as to flow in a generally helical vortex flow around the interior periphery thereof;

(e) control means whereby said introduced air may be caused to flow in the same peripheral direction throughout the length of the kiln, or alternatively in alternately opposite peripheral directions in longitudinally successive zones of the kiln;

(f) draft inducing means operable to create a draft in said kiln toward an outlet end thereof; and

(g) afterburner means interconnected to the draft outlet of said kiln, and operable to produce combustion of combustible gaseous of solid components entrained in said draft.

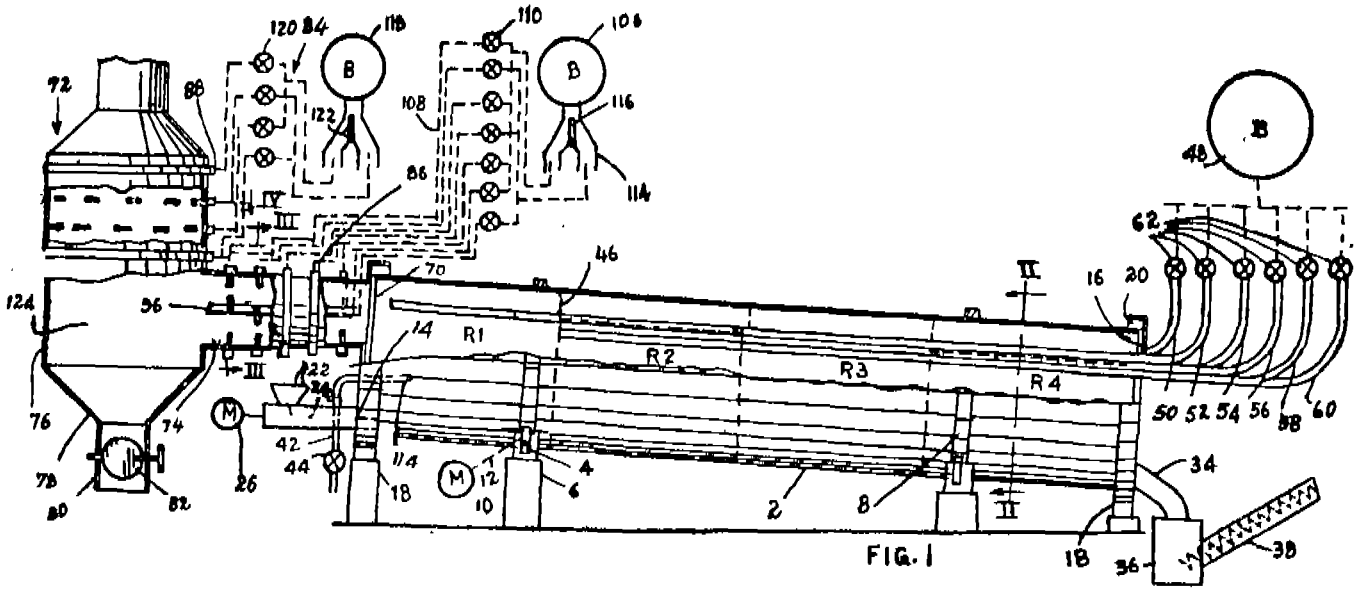


FIG. 1

Compl. specn. 28 pages Drg. 1 sheets

CLASS : 65-B_1 166063

Int. Cl. : H 01 f 27/00.

COMBINED HIGH-VOLTAGE CURRENT AND VOLTAGE TRANSFORMER.

Applicant : MWB MESSWANDLER-BAU AKTIENGESELLSCHAFT, OF NURNBERGER STR. 199, D-8600 BAMBERG, WEST GERMANY.

Inventor : NORBERT PREISSINGER.

Application No. 208/Cal/1987 filed March 12, 1987.

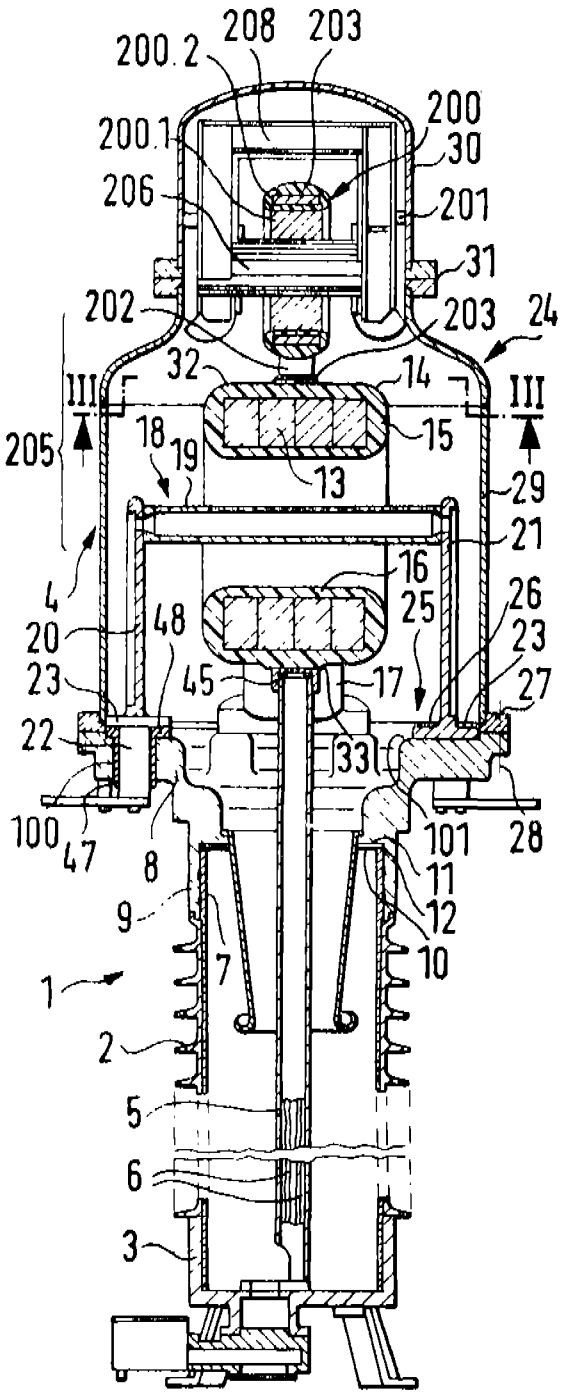
Complete Specification left on 11th March, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

24 Claims

Combined high voltage current—and voltage-transformer of head-type construction with a column of insulating material carrying the top housing whereby the active parts of the current transformer and above the same the active parts of the voltage transformer are arranged in the top housing, characterized in that the primary conductor (18) of the current transformer (16, 18) is constructed U-shaped, whose base (19) extends through the ring (14) of the secondary system (16) of the current transformer (16, 18) at least approximately concentrically and whose two legs (20, 21) protrude downwardly and are secured from the inside thereof exclusively on the closure plate (8) of the top housing (4) consisting of the closure plate (8) and of the hood (24), whereby at least the one leg (20) is electrically insulated from the metallic closure plate (8) and is adapted to be contacted through the same from the outside and from below, and in that the ring (14) of the secondary system (16) of the

current transformer (16, 18) is secured also exclusively on the closure plate (8) by way of supports (17).



Compl. specn. 22 pages Drgs. 3 sheets

Int. CLASS : H 01 r 9/00 166064

CONNECTOR BANK FOR CABLE WIRES, IN PARTICULAR OF TELEPHONE CABLES.

Applicant : KRONE AKTIENGESELLSCHAFT, OF BEESKOWDAMM 3—11, D-1000, BERLIN 37, WEST GERMANY.

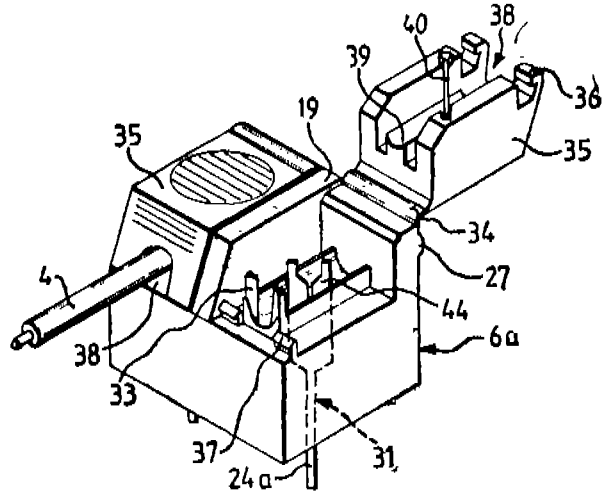
Inventor : EBERHARD KLAIBER.

Application No. 299/Cal/1987 filed April 16, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

Connector bank for cable wires of telephone cables, in particular for thick dropwire cable wires and thinner cable wires, consisting of a plastic body and of several electrical connecting elements provided each with a connecting contact for the connection of a cable wire, in particular of a dropwire cable wire, and with a centre contact, characterized by that for each connecting element (7), a plug (6, 6a) with a contact plug (24, 24a) for insertion into the centre contact (11) of the connecting element (7) is provided, and that the plug (6, 6a) exhibits a cable connecting element (20, 31) for connection of the other cable wire (4).



Compl. specn. 11 pages Drgs.: 2 sheets

CLASS : 116-C 166065

Int. Cl. : B 65 g 15/00.

CONVEYOR BELT ARRANGEMENT FOR THE ADJUSTMENT OF THE FALL PARABOLA OF A MATERIAL TO BE CONVEYED.

Applicant : PHB WESERHUTTE AG, OF POHLIG-STR. 1, D-5000 KOLN 51, WEST GERMANY.

Inventor : HELMUT MOHR.

Application No. 415/Cal/87 filed May 25, 1987.

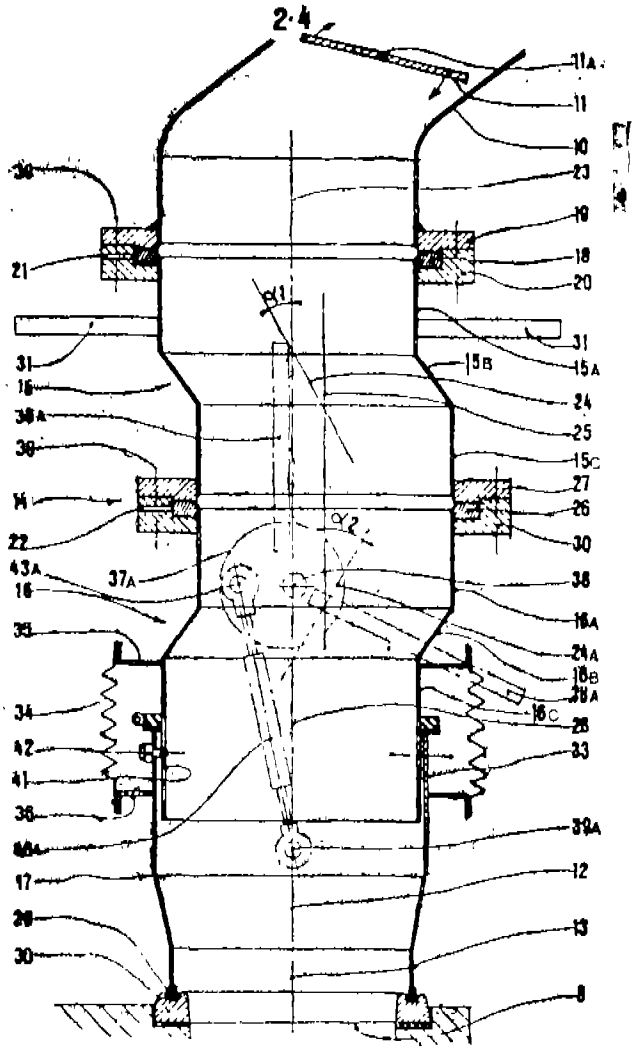
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A conveyor belt arrangement for the adjustment of the fall parabola (35, 35a) of a material to be conveyed, comprising :

a tail pulley (17) placed at a conveyor belt carrier (2) and a vertically adjustable snub pulley (19) fixing the inclination, seen in the direction of run of the belt, over which the endless conveyor belt (18) is guided, wherein the snub pulley (19) is placed at both sides on pivoted levers (20), which, seen against the belt conveying direction, are placed at the conveyor belt carrier (2) at a distance before the tail pulley (17);

whereby hydraulic cylinders stretch between the free ends (22) and the belt carrier (2), and the front end of the support roller carrier (27), seen in the direction of run of the conveyor belt (18), is provided with the return roller (28) underpropping itself on the pivoted levers (20) carrying the snub pulley (19), and the support roller carrier (27) is connected with the support roller carrier (27) is connected with the support roller carrier placed before that or with the conveyor belt carrier (2), seen in the direction of run of the conveyor belt (18) in a flexible way.



Compl. specn. 8 pages Drg. 1 sheet

CLASS : 28-B, 70-B, 85-J 166066

Int. Cl. : C 25 b 11/00; F 23 d 3/00; F 23 r 3/00.

PIPES HAVING ORIENTABLE NIPPLES FOR FURNACES FOR FIRING CARBONACEOUS BLOCKS.

Applicant : ALUMINIUM PECHINEY, OF 23, RUE BALZAC 75008, PARIS, FRANCE.

Inventors : (1) CHRISTIAN DREYER, (2) BERNARD BOFFA.

Application No. 465/Cal/1987 filed June 15, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4—497GI/89

11 Claims

A pipe for a furnace having chambers which are intended for the firing of carbonaceous blocks, said suction or blowing pipe comprising :

a main body (3) provided with a plurality of nozzles (10) to which tube portion referred to as "nipples" are connected in a number equal to the number of heating partitions (5) forming the chambers of the furnace, each of which nipples has to be fitted to the openings referred to as "tapholes" (8) disposed in the upper part of each heating partition (5) or the transverse walls (9) separating the different chambers of the furnace;

characterised in that in order to produce a sealed joint by alignment on X and Y, that is to say along the long axis and the short axis of the chamber furnace, between each nipple and the corresponding taphole, in spite of deformation of the chambers each nipple is formed by at least two tubular elements disposed in series;

a first element (15) provided on the one hand in its upper part (15a) with a flat flange (18) which co-operates in jointed relationship and in respect of rotation with a flat flange (19) disposed in the lower part of the nozzle (10) and on the other hand, in its lower part (15c);

a flat flange (27) which is parallel to the flange (18) and which co-operates in jointed relationship and in respect of rotation with a flat flange (26) disposed in the upper part (16A) of the second element (16);

the element (15) and the element (16) having over at least a part of their height an axis inclined by an angle with respect of the axis (23) which is perpendicular to the plane of the flanges.

Compl. specn. 16 pages Drg. 4 sheets

Int. CLASS : F 02 b 77/00 166067

TWO-STROKE INTERNAL COMBUSTION ENGINE AND CYLINDER HEAD PROVIDED WITH SAID ENGINE.

Applicant & Inventor : JEAN FREDERIC MEICHIOR, OF 126 BLD DU MONTPARNASSE, 75014 PARIS, FRANCE.

Application No. 491/Cal/1987 filed June 23, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

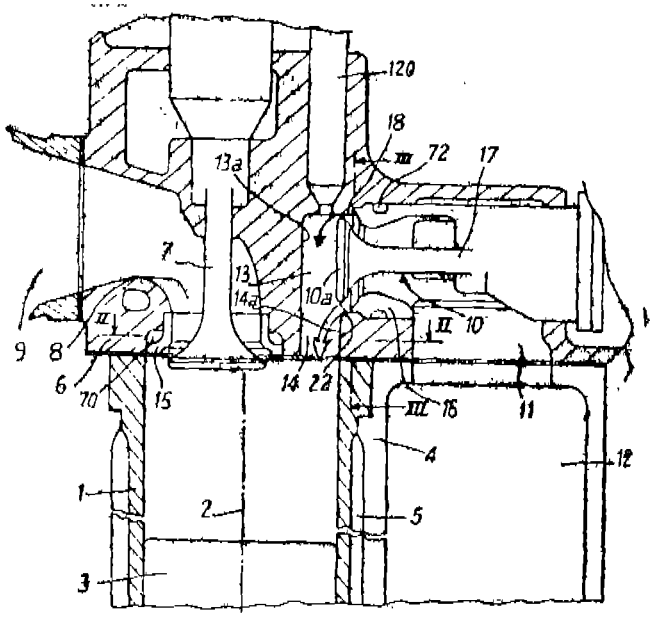
A two-stroke internal combustion engine having at least one cylinder with a reciprocating piston and a device for exchanging the gases entirely incorporated in the cylinder head and comprising :

a group of at least one intake valve (10) and a group of at least one exhaust valve (7);

each intake valve having its seat disposed in the wall of a scavenging and precombustion chamber (13);

said device for exchanging the gases having a plane of symmetry containing the axis (2) of the cylinder (1) and common to the disposition of the group of at least one intake valve (10); to the disposition of the group of at least one exhaust valve (7) and to the configuration of the interior surface of the prechamber (13) and of the cylinder head roof (6) and to the configuration of the surface of the piston (3);

characterized in that the prechamber (13) communicates with the cylinder (1) through a transfer passageway (14) whose walls (14a) are at least partially substantially parallel to the axis of the cylinder (1) and whose cross-section perpendicular to this axis opens out in accordance with a substantially oblong shape tangentially to the cylinder and, through its upper part, the or each intake valve (10) cooperates, practically without clearance (32), with the upper part of the lateral wall of the prechamber (13) substantially opposed to the transfer passageway (14).



Compl. specn. 30 pages. Drgs. 5 sheets

CLASS : 123 166068

Int. Cl. : A 01 n 59/00, 61/00, 65/00.

AN AYURVEDIC COMPOSITION EFFECTIVE AS AN AGENT FOR PROMOTING AGRICULTURAL YIELDS AND A METHOD FOR ITS PREPARATION.

Applicant & Inventor : BHOLA NATH MITRA, OF P.O. JALANNAGAR, DIBRUJAN, DIST. DIBRUGARH, ASSAM, INDIA.

Application No. 598/Cal/1987 filed August 03, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

An ayurvedic composition effective as an agent for promoting agricultural yield comprising :

5 to 10 parts by wt. of lime;

0.5 to 3 parts by weight of sulfur;

1 to 5 parts by wt. of alum;

2 to 10 parts by wt. of copper sulphate;

0 to 6 parts by wt. of borax in the puffed form;

100 to 250 parts by wt. of a flower extract such as hereinbefore described;

125 to 500 parts by wt. of tobacco extract such as hereinbefore described;

125 to 600 parts by wt. of a plant extract such as hereinbefore described;

1 to 6 parts by wt. of lime juice;

50 to 250 parts by wt. of buttermilk and 0 to 2 parts by wt. of camphor.

Compl. specn. 12 pages Drg. Nil

Int. CLASS : C 12 n 1/00; C 07 k 15/00 166069

A METHOD FOR RECOVERING LIPOPHILIC PROTEINS FROM HOST CELLS OF THE GENOUS PICHIA.

Applicant : PHILLIPS PETROLEUM COMPANY, OF BARTLESVILLE, STATE OF OKLAHOMA, UNITED STATES OF AMERICA.

Inventor : WILLIAM SCOT CRAIG.

Application No. 621/Cal/1987 filed August 10, 1987.

Convention dated May 28, 1987 (No. 538267) (Canada).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A method for recovering lipophilic protein from host cells of the genus *Pichia* which comprises :

(a) subjecting the cells of the genus *Pichia* to cell breaking conditions for a time sufficient to cause breakage of substantially al of the cells, characterized in that said breakage is carried out in the presence of an extraction medium comprising in the range of 1 up to 8 molar concentration of at least one chaotropic compound as hereinbefore defined, in a medium buffered at a pH of 6 to 8 suitable to maintain said lipophilic protein in a stable form; and

(b) recovering from the bottom cells of step (a) in a manner known per se soluble fraction of lipophilic protein, and optionally;

(c) concentrating and purifying the soluble fraction obtained from step (b) in a manner known *per se*.

Compl. specn. 11 pages Drg. Nil

CLASS : 105-B 166070

Int. Cl. : G 06f 3/00; 7/00 G 01 f 15/02 & G 01 n 25/32.

SYSTEM FOR DETECTING LEAKAGE OF WATER FROM BLAST FURNACE TUYERE(S).

Applicant : METALLURGICAL & ENGINEERING CONSULTANTS (INDIA) LIMITED, AT DORANDA, RANCHI-834002, BIHAR, INDIA.

Inventors : (1) SHANTI RAM DAS, (2) BADRI NARAIN SINGH, (3) DASHRATH SHANTILAL PARAMAR, (4) SHAM NANDAN JHA.

Application No. 688/Cal/1987 filed August 31, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

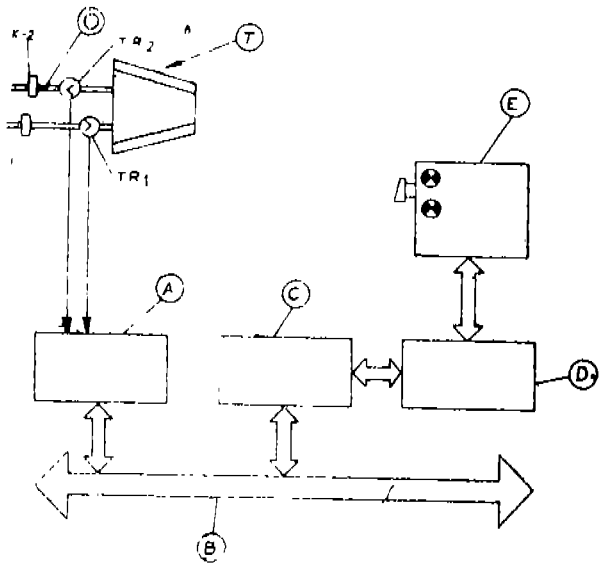
A system for detecting leakage of water in blast furnace tuyere(s) comprising :

first means for providing signal corresponding to the rate of inflow of water through the or each tuyere;

second means for providing signal corresponding to the rate of outflow of water from the or each tuyere;

third means for measuring the temperature difference in inflow and outflow of water from the or each tuyere; and

a control circuit connected to the said first, second and third means, said control circuit being adapted to compute the signals received from the said first, second and third means, and to detect the leakage of water, as and when the computed value of the signals varies from a predetermined value corresponding to the normal outflow of water from the or each tuyere.



Compl. specn. 7 pages Drg. 1 sheet

Ind. CLASS : 141 C XXXIII(8) 166071

Int. Cl. : C 22 b—1/02.

IMPROVEMENTS IN OR RELATING TO THE PROCESS FOR THE REDUCTION ROASTING OF ILMENITE SAND.

Applicant : LARSEN & TOUBRO LIMITED, OF L & T HOUSE, BALLARD ESTATE, BOMBAY-400 038, MAHARASHTRA, INDIA, AN INDIAN COMPANY.

Inventors : JAI CHANDRA MISHRA & (2) PANIKKAVEED ANANDAKUMARAN.

Application No. 70/Bom/1986 filed on 24th February, 1986.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Bombay.

3 Claims

An improved process for the reduction roasting of ilmenite sand, said process comprising reducing said sand with pyrolysed low ranking carbonaceous matter fines such as pyrolysed lignite coal fines as the reducing agent at a temperature of 865–875°C in a reducing atmosphere, namely oxygen deficient atmosphere, said fines being 3–5% by weight of said sand and upto –5 mm size.

Compl. specn. 7 pages Drg. Nil

Ind. CLASS : 40F 61H+123 166072

Int. Cl. : A 01 N—25/12,

A GRANULAR FREE-FLOWING PLANT GROWTH MATERIAL/STIMULANT COMPOSITION AND METHOD AND APPARATUS FOR MAKING SAME.

Applicants : HINDUSTAN LEVER LTD. 165/166, BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventors : (1) SHANTARAM MALEY, (2) RUSI GOVERNOR, (3) SRIDHARA BHASKARAN, (4) RAJESH KUMAR LAL.

Application No. 178/Bom/1986 filed June 23, 1986.

Complete after provisional September 22, 1987.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Bombay.

32 Claims

A granular free-flowing growth nutrient/stimulant composition comprising an insoluble solid granular carrier material such as hereinbefore described having been impregnated with a plant growth nutrient/stimulating component or components such as hereinbefore described in an amount of at least 0.01% by weight of the granular material, said granular material having a particle size of from 5 to 100 mesh.

Compl. specn. 18 pages Drg. 1 sheet

Prov. specn. 7 pages Drg. 1 sheet

Ind. CLASS : 170 B [XLIII(4)] 166073

Int. Cl. : C 11 D—3/395.

A BLEACHING COMPOSITION.

Applicants : HINDUSTAN LEVER LIMITED, HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventors : MARK EDWARD REREK.

Application No. 67/Bom/1987 filed on March 10, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

11 Claims

A bleaching composition containing :

(a) from 5 to 3% by weight of a peroxide compound, such as herein described having a bleaching action; and

(b) a catalyst for the bleaching action for the peroxide compound, comprising a complex of manganese (III) and a multidentate ligand supplied by a complexing agent, said agent being selected from the group consisting of hydroxy carboxylic acids containing at least 5 carbon atoms and the salts, lactones acid esters, ethers and boric esters thereof, and wherein the molar ratio of complexing agent to manganese is at least 1 : 1, the catalyst being present in an amount such that the manganese content is from 0.001 to 0.2% by weight of the composition, the composition optionally comprising;

(c) from 2 to 50% by weight of a surface active agent selected from the group consisting of nonionic, anionic, cationic and zwitterionic detergents and mixtures thereof; and

(d) from 1 to 85% by weight of a detergent builder as herein described.

Compl. specn. 32 pages Drg. Nil

Int. CLASS : C 22 B—43/00, C 01 G—13/00 166074

A NOVEL PROCESS FOR PREPARING MERCURY IN SOLID STATE.

Applicants : (1) MR. VIRENDRA RASIKLAL DOSHI, C/44 ANAND DARSHAN, 13 PEDDER ROAD, BOMBAY-400 026, MAHARASHTRA, INDIA.

(2) MR. SUKETU RASIKLAL DOSHI, C/43 ANAND DARSHAN, 13 PEDDER ROAD, BOMBAY-400 026, MAHARASHTRA, INDIA.

(3) MR. BRIJESH MAHENDRAKUMAR PAREKH, JUTHA DOSHI STREET, MANDVI CHOWK, SONI BAZAR, RAJKOT 360 001, GUJARAT, INDIA.

(4) MR. SHAILESH MAHENDRAKUMAR PAREKH, JUTHA DOSHI STREET, MANDVI CHOWK, SONI BAZAR, RAJKOT 360 001, GUJARAT, INDIA.

Inventors : (1) MR. BRIJESH MAHENDRAKUMAR PAREKH AND (2) MR. SHAILESH MAHENDRAKUMAR PAREKH.

Application No. 24/Bom/1988 filed on February 1, 1988.

Complete after provisional left on May 1, 1989.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Bombay.

11 Claims

A Novel process of preparing mercury in solid state comprising the following steps :

(a) taking a container/vessel with open mouth and adding water into it;

(b) adding Copper Sulphate ($CUSO_4$) into the water of the said container, to form Copper Sulphate solution;

(c) adding mercury (Hg) in liquid/semi-liquid form, as presently available, into the copper Sulphate solution of step (b);

(d) adding ammonium chloride (NH_4Cl), mineral salt (Nacl), borex ($Na_2B_407.10H_2O$) and Pottassium Nitrate (KuO_8), in the container having the contents of step (c);

(e) adding citric acid [$C(OH)(COOH)(CH_2COOH)_2$-H_2O] in the container having the contents of step (d);

(f) allowing natural cooling of the container having the contents of step (e), to evolve out all the exothermic heat generated in the above process and to obtain a lump of mercury in solid state;

(g) rinsing and washing thoroughly, the lump of mercury of step (f) with water, to remove all the slag and impurity;

(h) setting and curing the cleaned mercury lump of step (g) in citric acid or in water, or in open atmosphere.

Prov. specn. 5 pages Drg. 1 sheet

Compl. specn. 9 pages Drg. Nil

Int. CLASS : C 22 B—43/00, C 01 C—13/00 166075

A PROCESS OF PREPARING MERCURY IN SOLID STATE.

Applicants :

(1) MR. VIRENDRA RASIKLAL DOSHI, C/44 ANAND DARSHAN 13 PEDDER ROAD, BOMBAY-400026, MAHARASHTRA, INDIA.

(2) MR. SUKETU RASIKLAL DOSHI, C/43 ANAND DARSHAN, 13 PEDDER ROAD, BOMBAY 400026, MAHARASHTRA, INDIA.

(3) MR. BRIJESH MAHENDRAKUMAR PAREKH, JUTHA DOSHI STREET, MANDVI CHOWK, SONI BAZAR, RAJKOT-360001, GUJARAT, INDIA.

(4) MR. SHAILESH MAHENDRAKUMAR PAREKH, JUTHA DOSHI STREET, MANDVI CHOWK, SONI BAZAR, RAJKOT 360001 GUJARAT, INDIA.

Inventors :

(1) BRIJESH MAHENDRAKUMAR PAREKH, JUTHA DOSHI STREET, MANDVI CHOWK, SONI BAZAR, RAJKOT 360001 GUJARAT, INDIA.

(2) SHAILESH MAHENDRAKUMAR PAREKH, JUTHA DOSHI STREET, MANDVI CHOWK, SONI BAZAR, RAJKOT 360001 GUJARAT, INDIA.

Application No. 25/Bom/88 filed February 1, 1988.

Complete after provisional filed May 1, 1989.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Bombay.

5 Claims

A process of preparing mercury in solid state comprising the following steps :

(a) takings container/vessel with open mouth and adding nickel/kalai (Ni) into it;

(b) heating the said container to melt the nickel (Nil), kept into it, to form liquifled nickel;

(c) taking another container/vessel, with open mouth and adding lead (Pb) into it;

(d) heating the said another container to melt the lead (Pb) kept into it, to form liquified lead;

(e) taking the said liquified nickel and the said liquified lead into one vessel and adding the liquid/semi-liquid mercury (Hg), as presently available, into the vessel, containing the said liquified nickel and the said liquified lead;

(f) stirring the said contents of the above step(e) to mix them properly and forming a mixture of said metals;

(g) allowing natural cooling of the vessel containing the contents of the above step(e), to cool the said mixture of metals, slowly upto the room temperature to obtain a lump having mercury in solid state;

(h) setting and curing the said lump, having mercury in solid state, of step(g), in open atmosphere.

Prov. specn. 4 pages Drg. Nil

Comp. specn. 6 pages Drgs Nil

Ind. CLASS : 63 B, 65 B_2 166076

Int. Cl. : H 02 K—1/18, H 02 K—1/28.

A PROCESS OF MAKING CORES HAVING SELF MOUNTING MEANS.

Applicant & Inventor : SATISH TRIMBAK SANE, INDIAN NATIONAL, AT 10 ELECTRONIC CO. OP. ESTATE LTD., PUNE-SATARA ROAD, PUNE 411 009, MAHARASHTRA STATE, INDIA.

Application No. 41/Bom/1988 filed on February 23, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

5 Claims

A process for making cores having self mounting means, comprising :

a supplier supplying flexible sheet metal strips or wire;

a mandrel winding the said flexible sheet metal strip or wire, placing tie rods, bolts or the like between the layers of said flexible sheet metal strip or wire during the winding process;

said flexible sheet metal strip or wire being subjected to pressure by a press ensuring contact between the layers of said flexible sheet metal strip or wire, annealing the core so formed for stress relieving, end sealing by applying coat of varnish over the said core body.

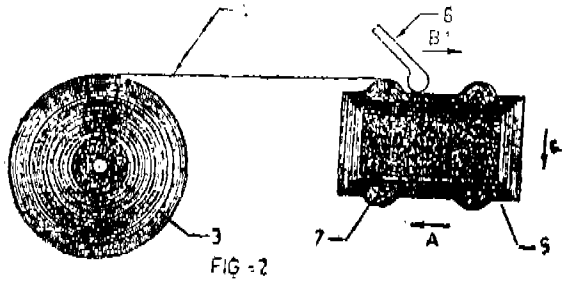


FIG - 2

Compl. specn. 8 pages Drg. 1 sheet

Int. CLASS : B 60 N—1/00, B 62 J—1/18, B 68 G—11/00. 166077

COVER FOR SEATS OF TWO WHEELER MOTOR VEHICLES AND SUCH SEATS FITTED WITH SAID COVER.

Applicant : BAJAJ AUTO LIMITED, AN INDIAN COMPANY OF AKURDI, PUNE-411 035, MAHARASHTRA, INDIA.

Inventors : GAURI PRAKASH AGARWAL & ANIL SAINI.

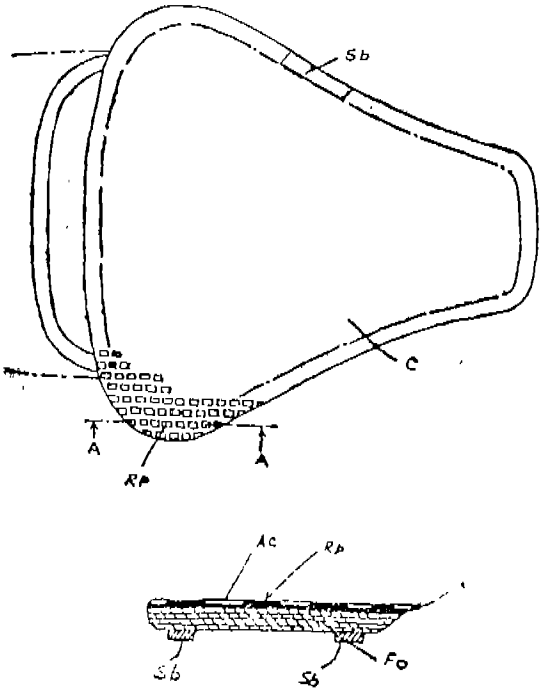
Application No. 139/Bom/88 filed on May 23, 1988.

Complete after provisional filed on September 5, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

8 Claims

A cover for seats of two wheeler motor vehicles, outer surface of which is formed with a criss cross net work or pattern comprising a plurality of raised portions and depressed portions between the said raised portions which are connected together to form channels.



Provisional specification 5 pages Drg. 1 sheet

Complete specn. 7 pages Drg. Nil

Int. CLASS : F 24 F—3/14 166078

AN IMPROVED SWIVELLING TYPE HUMIDIFIER.

Applicant & Inventor : DHONDAPPA MALKAPPA BIRADAR, C/O M/s. DPL INDUSTRIES, PLOT NO. 7, GAT NO. 832 TARDAL (ICHALKARANJI) DIST. KOLHAPUR, PIN CODE NO. 416 121, MAHARASHTRA, INDIA.

Application No. 61/Bom/1988 filed on 11-3-1988.

Complete specification left on 11-3-1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

2 Claims

An improved swivelling type humidifier comprising of :

a motor fitted with a motor shaft projecting out at both ends of said motor;

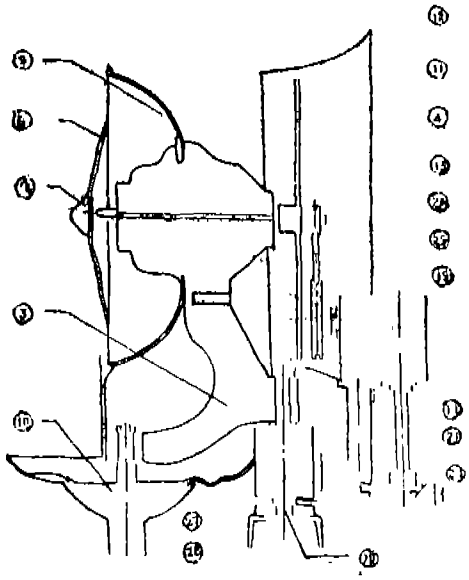
a fan surrounded by a fan guard fixed to the said motor shaft at one end, and a rotating disc surrounded by a toothed bowl fixed at the other end of said motor shaft, a pulley fixed to the motor shaft ahead of said fan and connected by known means such as belt to another pulley fixed on a horizontal input shaft of a gear box;

the said input shaft of the gearbox being fitted with a worm which engages with a worm gear mounted on an idele shaft provided at right angle to the said input shaft;

the said idle shaft having another worm engaging with another worm gear mounted on a vertical output shaft, the free end of the output shaft being connected to a lever, the other end of which is connected to a stationary bracket, used for mounting the humidifier, on the wall of factory hall;

the said stationary bracket is having a bearing pin which is rotatably mounted in a bearing housing,

a bracket supporting the said gear box at one end is rotatablv fitted at its other end to the said bearing housing, a pipe line having water cock, water filter and discharge tube is provided in known manner for supplying water to the said rotating disc.



Compl. specn. 6 pages Drg. 5 sheets

Ind. CLASS : 62 B [XXII(1)] 166079

Int. Cl. : D 06 B—5/22, B 05 C—5/00.

HIGH PRESSURE HIGH TEMPERATURE BEAM DYEING MACHINE HAVING PARTIALLY FLOODED SYSTEM AND A PROCESS OF DYEING POLYESTER AND/OR POLYESTER BLENDED FABRICS/YARN, BY THE SAID MACHINE.

Applicants & Inventor : CHANABASAPPA BASALINGAPPA GANJI, 13, BOMBAY SARGAM CO-OP. HOUSING SOCIETY, 24, GARODIA NAGAR, VALLABH BAUGH LANE (EXTN.) GHATKOPAR (EAST) BOMBAY-400 077, MAHARASHTRA, INDIA.

Application No. 245/Bom/1988 filed on 29th August, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

10 Claims

An improved HTHP beam dyeing maching having partially flooded system comprising of :

an autoclave connected to a heat exchanger, through a main pipe line having liquor circulation pump, the heat exchanger being provided with a steam inlet valve and a condensate outlet for circulating steam through it, for heating and cooling water inlet valve and water outlet for circulating water for cooling;

a drain valve provided in the lower part of the said heat exchanger and a dyestuff feed valve;

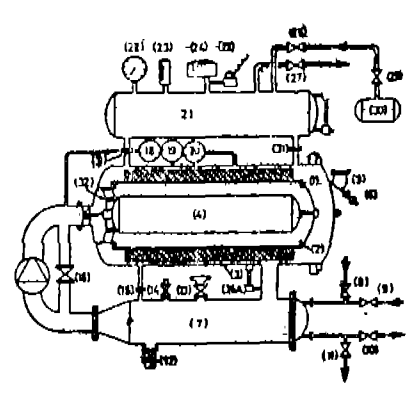
a water feed valve and an air vent, provided in the upper part of the said heat exchanger;

a perforated beam, on which fabric to be dyed is wrapped, provided inside the said autoclave;

a dummy beam provided inside the said perforated beam, a pressure guage for indicating the pressure of dye liquor being fed inside the said perforated beam provided on the said autoclave, another pressure guage for indicating the liquor pressure coming out of the fabric/air pressure inside the autoclave, provided on the autoclave;

a temperature indicator for indicating the temperature of the dyeing liquor provided on the autoclave; and

air pressure tank provided and connected at the top of said autoclave with the help of two or more pipe lines, a compressor unit, connected to the said air pressure tank through an air pressure regulator and air inlet valve the said air pressure tank being provided with an air relief valve for manually releasing the air, a spring loaded safety valve and a pressure switch actuated solenoid valve for automatically releasing the air and a pressure gauge for indicating the pressure of compressed air in the air pressure tank.



Compl. specn. 12 pages Drg. 1 sheet

Int. CLASS : C05F—3/00, 9/00, 11/00, 13/00. 166080

A METHOD OF PRODUCING REINFORCED ORGANIC MANURE.

Applicant & Inventor : DR. RAMESH TRIBHUVANDAS DOSHI, M. Com.LL.B. Ph.D. RESIDING AT JAMUNOTRY, 26TH ROAD, BANDRA, BOMBAY-400050, MAHARASHTRA, INDIA.

Application No. 351/Bom/1988 filed December 30, 1988.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Bombay.

6 Claims

A method of Producing Reinforced Organic Manure', comprising raw materials from the following groups :

(i) Animal dung and/or night soil and/or other material falling under this group, fresh or partially decomposed;

(ii) Municipal Organic refuse fresh or partially decomposed;

(iii) Rock Phosphate treated with phosphoric acid;

(iv) Oil Cakes extracted from edible and non edible oilseeds, preferably oil cakes from non edible oilseeds;

(v) Mineral Sulphates, chelated or otherwise;

(vi) Trace elements like Boron, Molydenum;

the said fresh or partially decomposed dung and the said fresh or partially decomposed municipal organic refuse being first treated in an aerobic or anaerobic manner for partially decomposting in a conventional manner, the said partially decomposted material transferred to a reaction vessel, preferably a rotating one, adding other raw materials from the groups (iii) to (vi) mentioned above, rotating the said vessel for 7 to 8 hours, and maintaining the temperature of 40 to 42°C to get reinforced organic manure with a moisture content of 10 to 12%.

Compl. specn. 8 pages Drg. Nil

Int. CLASS : H 02 g 1/02 166081

CONTROL APPARATUS FOR THE ELECTRONIC DETECTION IN ALTERNATING CURRENT TRANSMISSION LINES OF FAULT LOCATIONS CAUSING POWER LOSSES.

Applicant : KORONA MESSTECHNIK GOSSAU, OF ST. GALLER STRASSE 23, CH-9202 GOSSAU, SWITZERLAND.

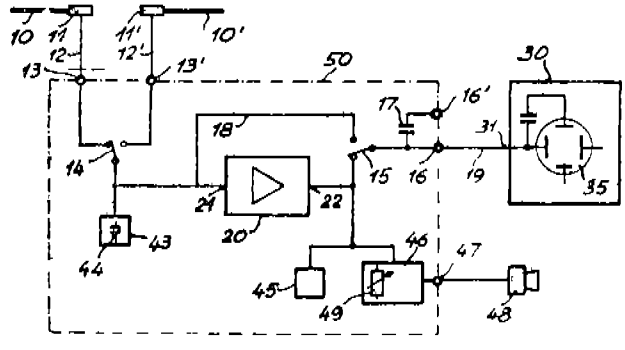
Inventors : BOHUMIL KOSINA AND PETER HUBACHER.

Application No. 369/Cal/1986 filed May 15, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

Control apparatus for the electronic detection of faults arising in alternating current overhead transmission lines at which power losses arise through corona discharges, with an antenna for the reception of high frequency signals arising by corona discharges, an amplifying device connected to the antenna for amplifying the received signals and an oscilloscope for the visual indication of the received signals, characterised in that the amplifier device (20) is capable of amplifying signal in a broad frequency band received by means of the antenna (10; 10') in a frequency range from a lower threshold frequency below the low frequency alternating current line frequency to an upper limiting frequency of about 1 GHz, where in the ultra short wave frequency range from 20 to 200 MHz the gain is at least 40 dB and in the frequency range of 5MHz to about 1 GHz the gain is at least 10 dB; in that the entire frequency spectrum of the output signals (S_N AND S_H) or the amplifier device (20) is fed to an input terminal of the oscilloscope (30) for vertical and horizontal deflection of the image spot so that on the image screen (35) of the oscilloscope (30) of the low frequency signal (S_N) produced by the sinusoidal alternating line voltage of the transmission line appears as a smooth closed curve (40) and the high frequency signals (S_H) caused by corona discharges appear as disturbances (41) of the closed curve (40), the appearance, magnitude and position of the disturbances enabling the location and type of a fault on the overhead transmission line to be determined.



Compl. specn. 19 pages Drgs. 3 sheets

CLASS : 66-D_7 166082

Int. Cl. : H 01 k 3/00.

SOLDERING FIXTURE, PARTICULARLY FOR SEALING ELECTRIC GAS DISCHARGE TUBES HAVING A CERAMIC ENVELOPE.

Applicant : TUNGSRAM RESZVENYTARSASAG, OF H-1340 BUDAPEST, VACI UT 77, HUNGARY.

Inventors : (1) LASZLO HORVATH, (2) DR. BELA KEREKES, (3) MIHALY PUSZTAI, (4) ATTILA VASS.

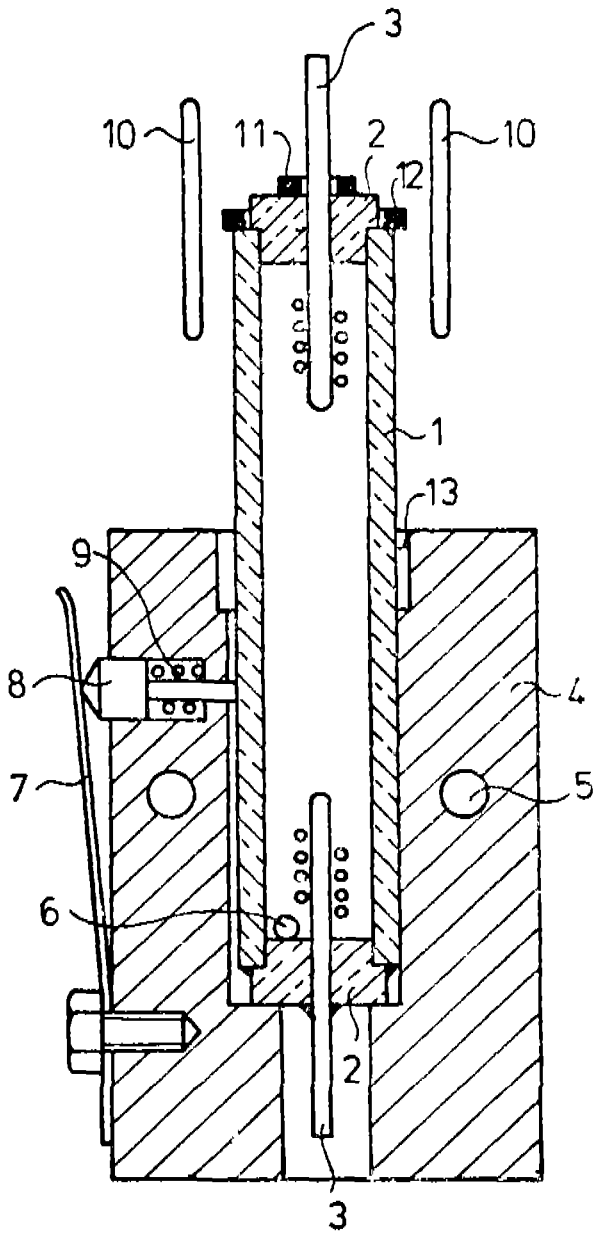
Application No. 441/Cal/1986 filed June 12, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

Soldering fixture, particularly for sealing electric gas discharge tubes having a ceramic envelope, comprising carrying means for receiving an envelope of a gas discharge tube and soldering means equipped with at least one heating body, characterized in that the carrying means are consisted of a cooled container arranged underneath the heating body for receiving the lower part of the envelope and in the container there is an opening with inner surface shaped according to the cross-section of the envelope and being in connection therewith and it contains

a unit for pressing the envelope to the inner surface of the opening.



Compl. specn. 10 pages Drg. 1 sheet

CLASS : 105-B; C; D 166083

Int. Cl. : G 01 v 5/00; G 01 t 1/15, 1/69; G 01 n 24/08.

DEVICE FOR MEASURING PARAMETERS OF UNDERGROUND MINERAL DEPOSITS.

Applicant : INSTITUT KHIMICHESKOI KINETIKI I GORENIA SIBIRSKOGO OTDELENIA AKADEMII NAUK SSSR, OF NOVOSIBIRSK, INSTITUTSKAYA ULITSA, 3, U S S R.

Inventors :

(1) ANATOLY GRIGORIEVICH SEMENOV,

(2) MIKHAIL DMITRIEVICH SCHIROV,

(3) ANATOLY VALERIEVICH LEGCHENKO,

(4) ANATOLY IZRAILEVICH BURSHTEIN,

(5) ALEXANDR JURIEVICH PUSEP.,

Application No. 607/Cal/1986 filed August 08, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A device for measuring parameters of underground mineral deposits producing a nuclear magnetic resonance (NMR) signal, comprising :

a wire loop located on the earth's surface and intended to produce, at the nuclear magnetic resonance frequency in the Earth's magnetic field;

a pulsed AC exciting field by applying AC pulses to said wire loop;

a generator of exciting AC pulses, a controlled switch whose inputs/outputs are connected to the wire loop and whose first input is connected to the generator of exciting AC pulses;

a receiver of the NMR signal induced in the wire loop by the underground mineral in the intervals between the exciting pulses, the information input of said receiver being connected to an information output of the controlled switch designed to alternately connect the wire loop to the output of the generator of Ac exciting pulses and to the information input of the receiver in a predetermined order;

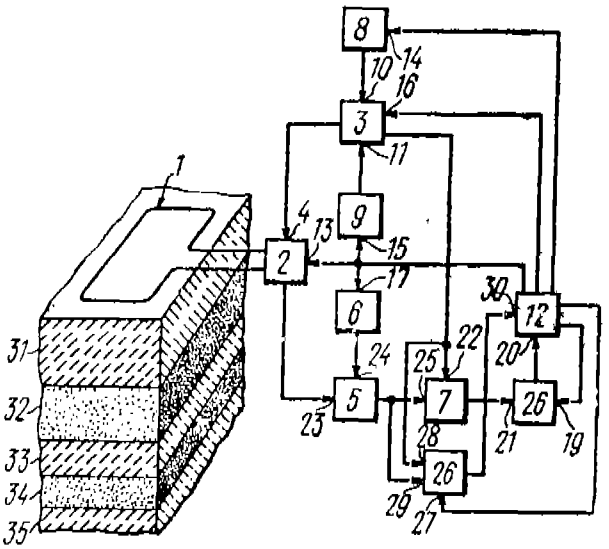
said device including a regulator of the amplitude of AC magnetic field exciting pulses and a regulator of the duration of such pulses, which are designed to control the amplitude and/or duration of the exciting pulses of the AC magnetic field, respectively, and to produce the amplitude and relaxation time of the NMR signal as a function of the variations of the amplitude and/or duration of said AC exciting pulses, outputs of the regulators of the amplitude and duration of exciting pulses being connected to respective inputs of the generator of exciting pulses;

a processor whose control outputs are connected to a control input of the controlled switch, to a controlled input of the generator of exciting pulses, to controlled inputs of the regulators of the amplitude and duration of exciting pulses;

an analog-digital converter whose controlled input is connected to the control output of the processor, while an information output of the AD converter is connected to the information input of the processor, the receiver of the device comprising an information signal amplifier, a coherent detector, and a gain control whose output is connected to the controlled input of the information signal amplifier, while the output of the information signal amplifier is connected to an information input of the coherent detector whose output is connected to an analog input of the AD converter;

a reference voltage input of the coherent detector being connected to a respective output of the generator of exciting pulses, while a controlled input of the gain control is connected to the control output of the processor designed to accumulate, process and store the dependence of the initial amplitude and relaxation time of the NMR signal and the amplitude and duration of the AC magnetic field pulses, which are set by the regulators, and, also,

to compare this dependence with a standard reference data.



Compl. specn. 32 pages Drg. 5 sheets

Int. CLASS : H 05 b 7/20 166084

INDUCTION-PLASMA INSTALLATION.

Applicant : VSESOJUZNY NAUCHNO-ISSLEDOVATELSKY, PROEKTNOKONSTRUKTORSKY I TEKHNOGICHESKY INSTITUT ELEKTRO TERMICHESKOGO OBORUDOVANIA (VNIIETO), OF ULITSA NIZHEGORODSKAYA, 29, MOSCOW, U S S R.

Inventors :

(1) NIKOLAI IVANOVICH FOMIN,
(2) VLADIMIR SERGEEVICH MALINOVSKY,
(3) BORIS BENTSIONOVICH PELTS,
(4) ALEXANDR ALEXANDROVICH PROSTYAKOV,
(5) MIKHAIL MIRONOVICH KRUTYANSKY USSR,
(6) ALEXANDR VIKTOROVICH SVIDO USSR,
(7) GRIGORY IZRAIEVICH MEERSON USSR,
(8) VIKTOR MATVEEVICH BOBYLEV USSR,
(9) MIKHAIL YAKOVLEVICH KAPLUN USSR,
(10) LEONID BORISOVICH ODNOPOZOV USSR,
(11) ALEXANDR LVOVICH REZUNENKO USSR,
(12) VADIM GEORGIEVICH LADOZHSKY,
(13) VIKTOR VASILIEVICH DOLGOV.

Application No. 617/Cal/1986 filed August 13, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

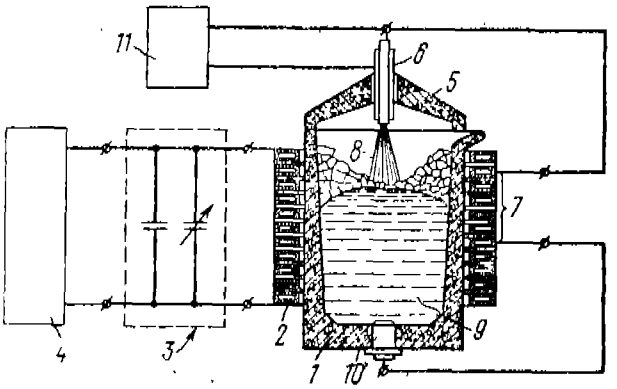
3 Claims

An induction-plasma installation comprising :

a vessel for melting of a charge is mounted in a induction heater which is connected to a capacitor bank and an alternating current source;

at least one plasma generator being mounted either in the cover or in the side wall of the said vessel;

an oscillator connected to the electrode of the said plasma generator and an electrode preferably mounted in the bottom of the said vessel for completing the working current circuit through only one plasma generator characterised in that the said plasma generator is connected in parallel with a portion of the turns of the said induction heater.



Compl. specn. 18 pages Drg. 5 sheets

Int. CLASS : G 08 c 19/00 166085

AN APPARATUS FOR PROCESSING A SENSOR SIGNAL FROM A LIGHT DETECTOR AT ONE END OF AN OPTIC FIBER.

Applicant : THE BABCOCK & WILCOX COMPANY, AT 1010 COMMON STREET, NEW ORLEANS, LOUISIANA 70160, UNITED STATES OF AMERICA.

Inventors : WILLIAM LEE THOMPSON.

Application No. 653/Cal/1986 filed August 29, 1986.

5 Claims

An apparatus for processing a sensor signal from a light detector at one end of an optic fiber which signal is modulated between maximum and minimum levels by the optic fiber, the optic fiber receiving light in pulses from a light emitter, comprising :

a preamp connected to the light detector for amplifying the sensor signal, the preamp having high and low current modes of operation with a high bandwidth in its high current mode;

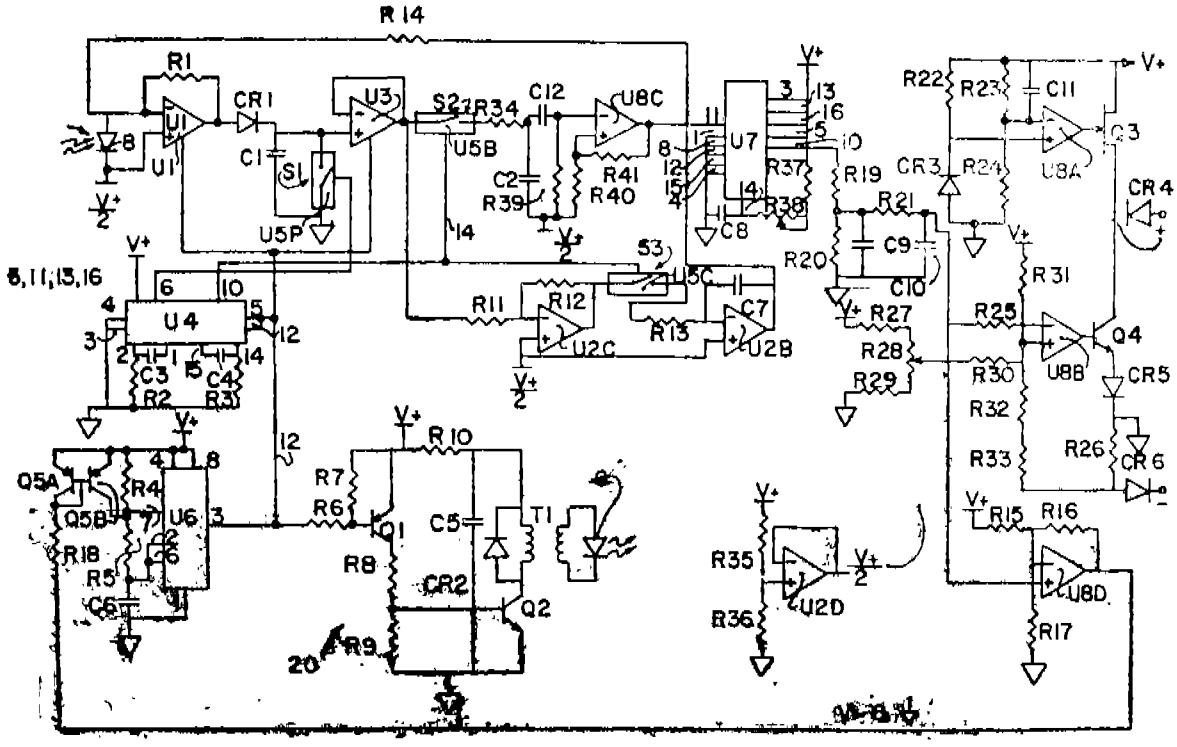
clamping means connecting to an output of said preamp for clamping the amplified sensor signal at an average level between positive and negative saturation levels for said preamp, as a signal ground, said clamping means having a long time constant with respect to changes in the modulated sensor signal so that rapid changes in the sensor signal pass;

drive signal generating means for generating a drive signal having a frequency which is dependent on a sampled and held signal, said drive signal means being connected to the light emitter for lighting the light emitter in pulses;

peak-following sample and hold means connected to said clamping means for generating a peak-following sample and hold signal which follows peaks of the signal passed by said clamping means;

low-pass filter means connected to said peak-following sample and hold means for filtering out a frequency component of said drive signal from said peak-following sample and hold signal said low-pass filter means generating said sampled and held signal for said drive signal means;
and

current control means connected to said low-pass filter means for receiving said sampled and held signal and generating a current signal corresponding to said sensor signal.



Compl. specn. 15 pages Drg. 1 sheet

CLASS : 5-A, D, E 166086
Int. Cl. : A 01 c 5/00; 7/00.

HAND PUSHED DRILL FOR SOWING JUTE SEEDS.

Applicant : INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION, 17, TARATOLA ROAD, CALCUTTA-700088, WEST BENGAL, INDIA.

Inventors :

(1) SAMARENDRA NATH GHOSE,

(2) CHAITANYA KRISHNA KUNDA,

(3) ASHOKE KUMAR BANDYAPADHYAY,

(4) SAILENDRA NATH BANERJEE.

Application No. 785/Cal/1986 filed October 27, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A multi-row hand pushed seed drill for sowing jute seeds comprising :

one front wheel;

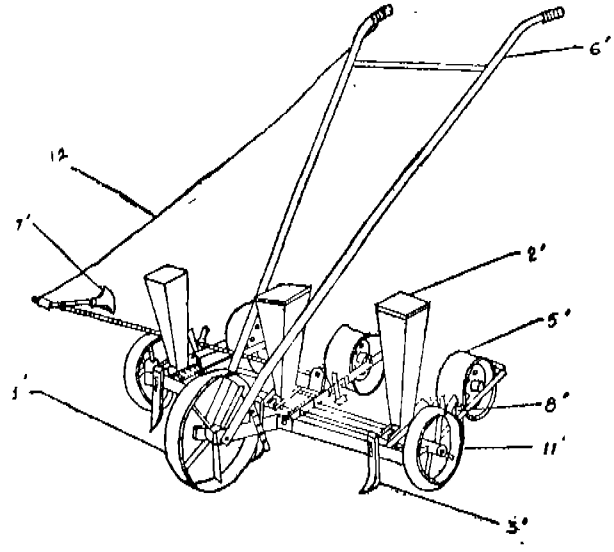
a plurality of hoppers for containing the seeds;

a plurality of seed discs;

a plurality of furrow openers a plurality of soil gatherers;

a plurality of pressing rollers;

a plurality of scrapers and a pair of handles characterised in that the said pair of handles are fixed on the two sides of the front wheel through a bracket attachment and further that there are provided a pair of side wheels which rotate on a rolling shaft on which the seed discs are mounted for their operation.



Compl. specn. 8 pages Drg. 3 sheets

Int. Cl. : H 01 h 9/30, 9/54 166087

DEVICE FOR ARCLESS SWITCHING OF ELECTRICAL CIRCUITS.

Applicant & Inventors : (1) VIKTOR ALEXANDROVICH BUDYKO, OF ZAPOROZHIE, ULITSA MIRA, 20, KV. 60, USSR (2) ANDREI FEDSEEVICH IVANCHENKO, OF ZAPOROZHIE, ULITSA ANGOLENKO, 14A, KV. 17, USSR; (3) VLADIMIR MIKHAILOVICH KROKHMAL, OF ZAPOROZHIE, ULITSA LENINA, 58, KV. 15 USSR; (4) VLADIMIR VLADIMIROVICH KONOVALENKO, OF ZAPOROZHIE, ULITSA VODONAPORNAYA, 16A, USSR; (5) GEORGY VASILIEVICH NECHVOLODOV, OF ZAPOROZHIE, ULITSA AVRAMENKO, 12, KV. 8, USSR; (6) BORIS NIKOLAEVICH LASTOCHKIN, OF ZAPOROZHIE, ULITSA LENINA, 58, KV. 4,

USSR; (7) VALENTIN DMITRIEVICH KUTSOV, OF ZAPOROHIE, ULITSA KEDROVAYA, 7, USSR.

Application No. 807/Cal/1986 filed November 06, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

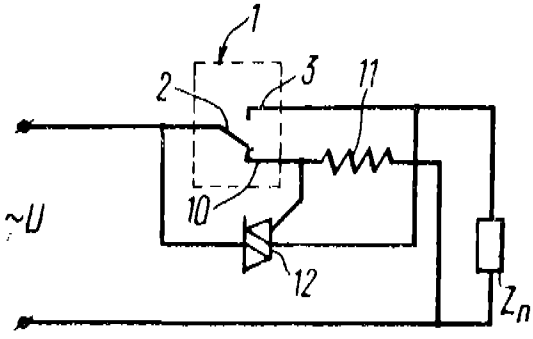
A device for arcless switching of electrical circuits, comprising :

a power make contact having a movable contact and a fixed make contact of a make-and-break contact assembly, said movable contact being connected to a first pole of a supply source and being a movable contact of the make-and-break contact assembly;

a controlled semiconductor device having a control lead, and power leads connected in parallel with said movable and fixed contacts of said power make contact;

a control circuit including said movable contact of said power make contact, a fixed break contact of the make-and-break contact assembly is electrically coupled to said control lead of said controlled semiconductor device, and a resistor connected between said control lead of said controlled semiconductor device and a second pole of the supply source; and

the controlled semiconductor device being saturated in any intermediate position of the movable contact to shunt all contacts of the make-and-break contact assembly and to produce an additional parallel path, a side from the contacts of the make-and-break contact assembly for switching current and control circuit current.



Compl. specn. 16 pages Drg. 1 sheet

CLASS : 32-E 166088

Int. Cl. : C 08 f 6/28.

AN IMPROVED PROCESS FOR PRODUCING POLYMERS.

Applicant : MITSUI TOATSU CHEMICALS, INCORPORATED, OF 2–5, KASUMIGASEKI 3-CHOME, CHIYODA-KU, TOKYO, JAPAN.

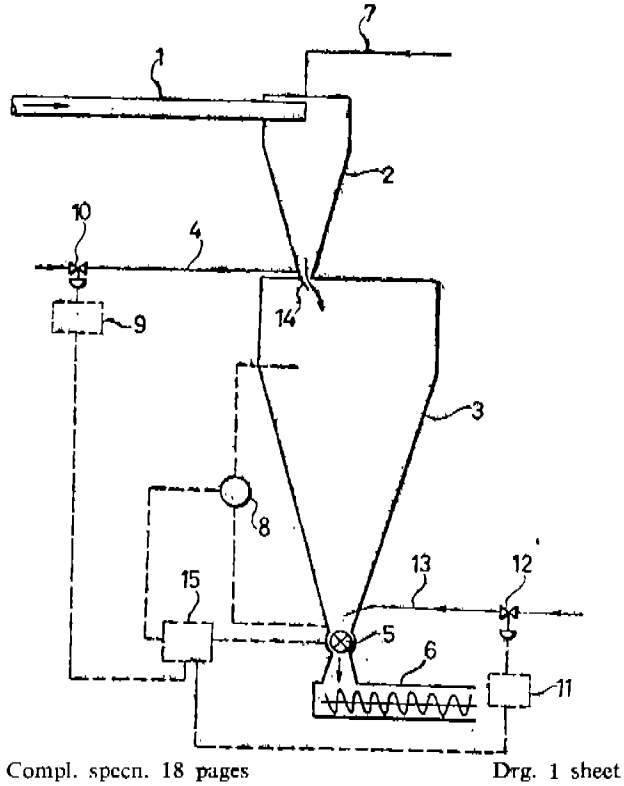
Inventors : (1) TADASHI ASANUMA, (2) YOSHIYUKI FUNAKOSHI, (3) KANEO ITO, (4) AKHIKO NAKAJIMA.

Application No. 815/Cal/1986 filed November 10, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

An improved process for producing polymers by introducing a stream of a mixture of a polymer and a carrier gas resulting from polymerization into a cyclone separator, drawing the polymer powder, which has been separated from the carrier gas, through a bottom part of the cyclone separator into a hopper, drawing the carrier gas from an upper part of the cyclone separator and feeding out the polymer by a rotary feeder from the bottom part of the hopper, the improvement comprising controlling the revolution speed of the rotary feeder in accordance with variations in the powder level in the hopper so as to control the amount of the polymer powder to be discharged out from the hopper, controlling the volume of a purge gas as herein-described, which gas is introduced into a polymer powder guide extending between the cyclone separator and the hopper for the prevention of plugging thereof in accordance with variations in the revolution speed of the rotary feeder, and controlling the volume of a purge gas introduced to a point above and near the rotary feeder in accordance with variations in the revolution speed of the rotary feeder, whereby the plugging of the guide between the cyclone separator and hopper and that of an area above the rotary feeder are prevented and the powder level in the hopper is maintained at predetermined constant level.



Compl. specn. 18 pages Drg. 1 sheet

CLASS : 146-D_1; D_2 166089

Int. Cl. : G 02 b 27/22; G 03 h 3/00.

APPARATUS FOR PRODUCING THREE-DIMENSIONAL HOLOGRAPHIC DISPLAYS IN FREE SPACE.

Applicant : THE BABCOCK & WILCOX COMPANY, AT 1010 COMMON STREET, P.O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, U.S.A.

Inventors : (1) MARION ALVAN KEYES IV, (2) WILLIAM LEE THOMPSON.

Application No. 828/Cal/1986 filed November 14, 1986.

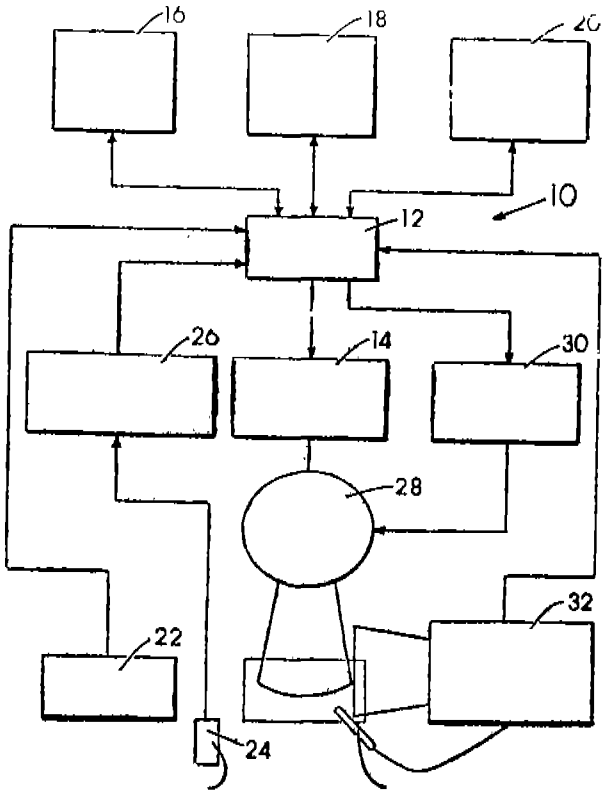
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

An apparatus for producing a three-dimensional holographic display in free space for controlling process/plant parameters, comprising :

a video receiver means for displaying two-dimensional image transmitted from a control means, connected thereto, according to the graphics generated by the control means based on the desired image data of the process/plant being controlled and stored in an optical disc system, connected as input to the said control means, and/or based on the image information about and obtained by a video camera system, connected as input to the said control means, and/or based on information as to process variables and the status of the process/plant being controlled, generated by a process control system, connected as input to the said control means;

said optical disc system, video camera system, and the process control system being controlled, as and when desired, by the said control means, for modification/ change of their outputs, fed as inputs to the said control means, and means disposed in front of the said video receiver means for transforming the two-dimensional image displayed on the video receiver means into a three-dimensional halographic image projected into free space in front of the said transforming means, whereby the process control variable information is capable of being superimposed on the halographic display in real time, and the process/ plant parameters, to be controlled, are capable of being displayed and updated in real time.



Compl. specn. 10 pags. Drg. 1 sheet

CLASS : 154-D 166090

Int. Cl. : B 41 f 7/28.

AN IMPROVED DAMPING APPARATUS IN PARTICULAR FOR A ROTARY OFFSET PRINTING MACHINE.

Applicant : VEB KOMBINAT POLYGRAPH "WERNER LAMBERZ", OF ZWEINAUNDORFER STR. 59, LEIPZIG 7050, GERMAN DEMOCRATIC REPUBLIC.

Inventors : (1) DIMMEL ERWIN, (2) ZUBER GERHARD, (3) RAUH GEROLD, (4) SCHNABEL PETER.

Application No. 950/Cal/1986 filed December 26, 1986.

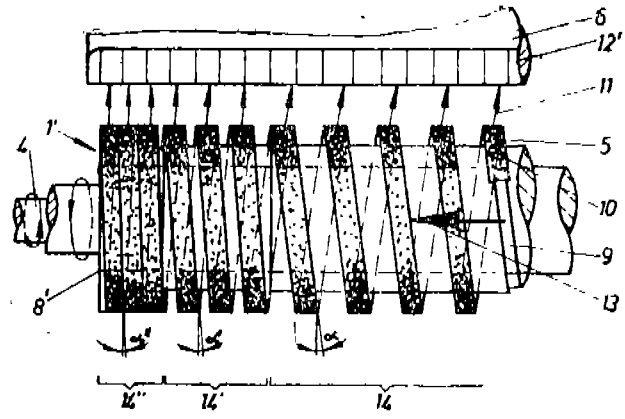
Convention dated 30th October, 1986 (No. 8625921) (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

An improved damping apparatus in particular for a rotary offset printing machine, comprising :

a brush roller with a helical brush for conveying a damping medium with a component of movement axially of the brush in direction from one end thereof and stripper means in contact with the helical brush, the helical brush being so arranged that its pitch angle is smaller at the roller end portion associated with said one end than in the remaining portion of the roller.



Compl. specn. 6 pages Drg. 1 sheet

Int. CLASS4 : F23D 14/00 166091

COAL NOZZLES FOR STEAM BOILERS OR GENERATORS FIRED WITH COAL DUST AIR MIXTURE.

Applicant : BHARAT HEAVY ELECTRICALS LIMITED, OF 18–20 KASTURBA GANDHI MARG, NEW DELHI-110001, INDIA, AN INDIAN COMPANY.

Inventor(s) : MELAPUDI KARUNAKARA REDDY, KARUTHAN MALARKKAN VADAMALAYAN MELARKKAN AND THANGAVEL SOUNDARAPANDIAN.

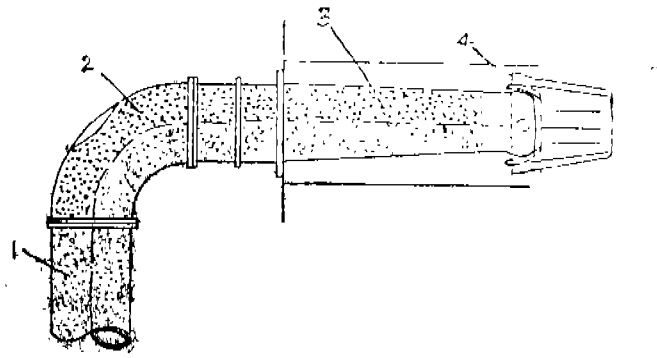
Application for Patent No. 309/Del/85 filed on 15th April, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

A split coal nozzle having nozzle tip pivoted to its exit end and connected at its inlet end to a pipe bend or an elbow fix to a pipe supplying coal dust-air mixture characterised in that a partition or divider plate is fitted within the nozzle (3) to divide the nozzle into an upper half portion and a lower half (8) portion for maintaining in the upper half portion (9) of the nozzle concentration of coal dust in coal dust-air mixture prevailing at the entry to the nozzle upto exit end or tip of the nozzle.

(A reference has been made to Divisional Indian Patent Application No. 1114/Del/87).



Compl. specn. 13 pages Drg. 2 sheets

Ind. CLASS : 195 G 166092

Int. Cl.[4] : F16K 19/00, 23/00.

AXIAL MULTIPORT ROTARY VALVE FOR ACCOMPLISHING THE SIMULTANEOUS INTERCONNECTION OF A PLURALITY OF CONDUITS.

Applicant : UPO INC., A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE IN THE UNITED STATES OF AMERICA, WITH ITS PRINCIPAL PLACE OF BUSINESS LOCATED AT TEN UOP PLAZA, ALGONQUIN & MT. PROSPECT ROADS, DES PLAINES, ILLINOIS-60016, U.S.A.

Inventors : GARY MICHAEL SCHUMANN, CHARLES ARTHUR DOLEJS & DAVID LEE SCHICK.

Application for Patent No. 107/Del/86 filed on 5th February, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

An axial multiport rotary valve 80 for accomplishing the simultaneous interconnection of a plurality of conduits in accordance with a previously determined cycle, where any conduit communicates, by means of the valve, with no more than one other conduit at any one valve index position comprising :

(a) a stator assembly 11, 12, 13 having a hollow interior and being comprised of a central element 11, a first end element 12, and a second end element 13, each of said elements having a cylindrical exterior form, the central element having first and second interior transverse surfaces, each transverse surface being perpendicular to an axis of rotation, said axis of rotation is the longitudinal axis of both the stator assembly and a rotor assembly, 17, 18, 85, the central element having a plurality of internal ports, 150, 153, each port extending from one of the transverse surfaces toward the other transverse surface and being parallel to the axis of rotation, where the intersections of the ports with each transverse surface are arranged in a circle centered on the axis of rotation, and the central element having a plurality of openings 151, 152, where each opening extends from a port to the exterior surface of the stator central element;

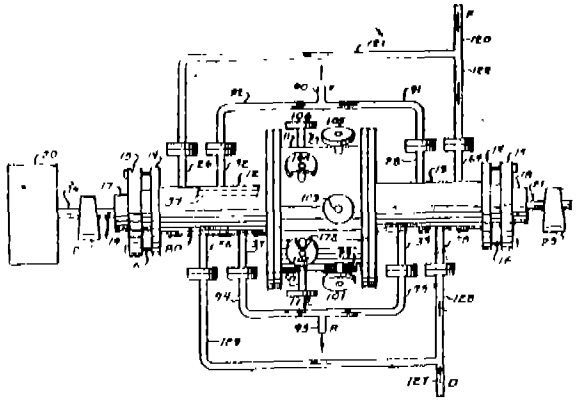
(b) said rotor assembly being comprised of a spacer element 85, a first end element 17, and a second end element 18, where the spacer element is rigidly connected between the end elements, said rotor assembly being located substantially inside the hollow interior of the stator assembly 11, 12, 13 such that a first annular volume is formed between said first rotor end element 17 and said first stator end element 12, a second annular volume is formed between said second rotor end element 18 and said second stator end element 13, a first transverse volume is formed between said first transverse surface of said central stator element 11 and an end surface of the first rotor end element 17, and a second transverse volume is formed between said surface of said second transverse central stator element 11 and an end surface of the second rotor end element 18, each of said rotor element end surfaces being parallel to said central stator element transverse surfaces, said rotor assembly rotates about said axis of rotation to various valve index positions in accordance with said previously determined cycle, and which rotor assembly has a plurality of interior channels 37, 38, 166, 167;

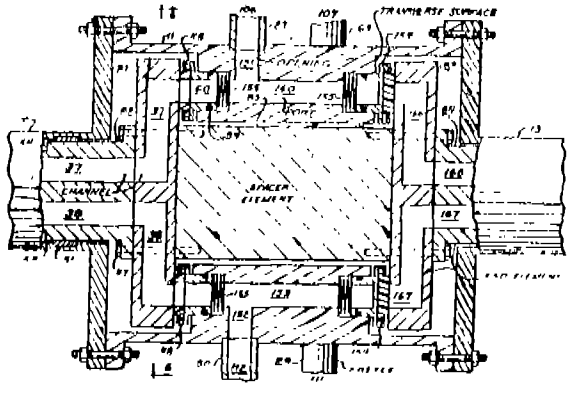
(c) a pluarlity of nozzles 26, 28, 32, 33, 34, 36, 64, 78, 27, 29, 50, 172 for connection of said conduits to the valve, the nozzles being located on the stator assembly 11, 12, 13 and providing fluid paths between conduits and said annular volumes inside the rotor assembly and between conduits and said central stator element openings 151, 152;

(d) means 40 in said annular volumes for definition of fluid passages which communicate with said interior channels of the rotor assembly 37, 38, 166, 167, such that fluid passes between said rotor end element nozzles 26, 28, 32, 33, 34, 36, 64, 78 and said rotor channels via said annular volume fluid passage means;

(e) port sealing means 154 for preventing flow through only one end of each of said central stator element ports 150, 153; and

(f) means 48 in said transverse volumes for definition of fluid passages which communicate between said interior channels 37, 38, 166, 167 of the rotor assembly and the ends of said ports 150, 153 which are not equipped with said port sealing means, such that fluid passes between said central stator element nozzles 27, 29, 50, 172 and said rotor channels 37, 38, 166, 167 via said central stator element openings 151, 152; at least a portion of said ports, and said transverse volume fluid passages, thereby completing fluid paths so that different pairs of nozzles communicate at each valve index position, in accordance with said previously determined cycle.





Compl. specn. 30 pages Drg. 5 sheets

Ind. CLASS : 72C 166093

Int. Cl.[4] : C06B 47/02.

APPARATUS FOR THE MANUFACTURE OF ONE OR MORE BLOCKS OF PROPELLANT BY CASTING

Applicant : SOCIETE NATIONALE DES POUDRES ET EXPLOSIFS, A FRENCH COMPANY, OF 12, QUAI HENRI IV-75181 PARIS CEDEX 04, FRANCE.

Inventors : JEAN-MARCEL DUPONT.

Application for Patent No. 110/Del/86 filed on 5th February, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

Apparatus for the manufacture of one or more blocks of propellant by casting, comprising :

one or more moulds (2);

at least one storage tank (3) for the casting solvent connected by a first supply line (4) to the mould (2);

a source of compressed air (18) and a source of vacuum (14) characterised in that the source of compressed air (18) is connected by a second supply line (19) to the storage tank (3);

said source of compressed air (18) also being connected by a third supply line (21) to said moulds (2) and in that every said mould (2) is connected to said source of vacuum (14) by means of a float valve (17) situated in an upper part of said mould (2).

Compl. specn. 17 pages Drg. 2 sheets

Ind. CLASS : 152 E 166094

Int. Cl.[4] : C08F 126/00.

A METHOD FOR PRODUCING A LOW SMOKE AND FLAME RETARDANT THERMOPLASTIC ELASTOMER COMPOSITION.

Applicant : BP CHEMICALS LIMITED, A BRITISH COMPANY, OF BELGRAVE HOUSE, 76 BUCKINGHAM PALACE ROAD, LONDON, SW1W 0SU, ENGLAND.

Inventors : DAVID JOSEPH ANZINI AND CHARLES DAINS SHEDD.

Application for Patent No. 432/Del/86 filed on 14th May, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

11 Claims

A method for producing a low smoke and flame retardant thermoplastic elastomer composition comprising blending together and partially curing a blend consisting essentially of a binary polymer blend of an acrylate rubber and a polyolefin resin, selected from the group consisting of crystalline propylene homopolymers and copolymers, and aluminium trihydrate, the ratio of acrylate rubber to olefin resins being from 95 : 5 to 50 : 50 parts by weight and the aluminium trihydrate being present in an amount of up to 250 parts by weight per 100 parts of the total weight of acrylate rubber and polyolefin resin, the blend being partially cured by dynamically mixing the blend in the presence of a curing agent such as herein described in an amount from 1 to 90% of the amount necessary to effect subsantially complete cure.

Compl. specn. 17 pages Drg. 2 sheets

Ind. CLASS : 128 FG 166095

Int. Cl. : B 01D 13/00.

A TWO PART DEVICE FOR SHUTTING-OFF AND SEVERING A TUBE PARTICULARLY A TUBE USED IN DIALYSIS OR INTRAVENOUS INJECTION.

Applicant : CONTEMPO PRODUCTS, P. HERRLI OF ALPENSTRASSE 15A, 2502 BIEL, CANTON OF BERNE, SWITERLAND, A SWISS COMPANY.

Inventor : PETER HERRLI.

Application for Patent No. 521/Del/86 filed on 12th June, 1986.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A two part deevice for shutting-off and severing a resilient tube through which a liquid has flowed, particularly a tube used in home dialysis for withdrawal of blood, wherein the first part (1) has two parallel walls (3) between which a cradle piece (4) for the tube (A) accommodated, four coaxial pairs of catch opening (5, 6, 7, 8) being provided in the walls (3), the second part (2) having a mounting arm (14) with a cutting edge (9) a clamping Nose (10), and two catch springs (11), the cutting edge (9) being separated from the clamping nose (10) by a first gap (12), and the clamping nose (10) being separated from the catch springs (11) by a second gap (13), and three coaxial pairs of projections (15, 16, 17) being provided on each side of the second part (2), the second part (2) being pivotably secured to the first part (1) by means of its first pair of projections (15) provided on the mounting arm (14) snapped into the first pair of catch openings (5), and being successively snappable during the course of its pivoting movement into the second pair of catch openings (6) by means of the second pair of projections (16) provided on the clamping nose (10) and into the third and fourth pairs of catch openings (7, 8) by means of the third pair of projections (17) provided on the catch springs (11).

Complete specn. 7 pages Drg. 4 sheets

Ind. CLASS : 206 E 166096

Int. Cl.[4] : H03K 17/00.

ELECTRICAL SWITCHING CIRCUITS FOR USE BETWEEN A SIGNAL SOURCE AND A FOUR-POLE DEVICE.

Applicant : LGZ LANDIS & GYR ZUG AG, A SWISS COMPANY OF CH-6301, ZUG, SWITZERLAND.

Inventor : PETR JAN.

Application for Patent No. 712/Del/86 filed on 6th August, 1986.

Complete specification left on 13th July, 1987.

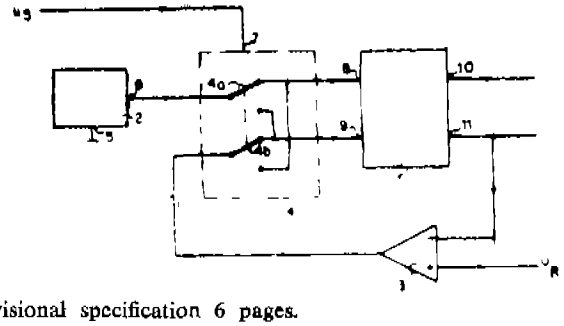
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

3 Claims

An electrical switching circuit for use between a signal source (2) and a four-pole device (1) for compensating a referred potential at one output of the device to the value of a reference volage, the circuit comprising :

an amplifier (3) for receiving the referred potential at an inverting input thereof and the reference voltage at a non-inverting input thereof for comparison with the referred potential; and

a double-pole double-throw switch (4), the output of the amplifier being connected to an input of the fourpole device by way of the switch, the switch being connected and operable so that in one position the output of the amplifier is connected to a first input of the four-pole device and the signal source is connected to a second input of the four-pole device, and when the switch is in its other position the signal source is connected to the first input of the four-pole device and the amplifier output is connected to the second input of the four-pole device.



Provisional specification 6 pages.

Compl. specn. 7 pages Drg. 1 sheet

Ind. CLASS : 107 G 166097

Int. Cl.[4] : F02B 77/04.

A DESCALING BATH FOR DESCALING OF DIESEL ENGINE COMPONENTS AND A PROCESS FOR DESCALING THE DIESEL ENGINE COMPONENTS USING THE BATH.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : INDIRA RAJAGOPAL, VATTYA KRISHNAMURTHY WILLIAM GRIPS, KARAIKUDI SANKARANARAYANA RAJAM & SUNDARAPANDIUM RAMA RAJAGOPALAN.

Application for Patent No. 944/Del/86 filed on 27th October, 1986.

Compl. specn. left on 24th March, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

15 Claims

A descaling bath for removing scales from components of diesel engines comprising an acqueous solution containing (i) amino carboxylic acid 2–15% by wt. (ii) alkali metal salts of aliphatic dihydroxy mono and di carboxylic acid –15% by wt. (iii) alkali metal salts of hydroxy tri basic acid, and 1–15% by wt. (iv) a surfactant 0.01 to 0.5% by wt.

Complete specification 11 pages.

Ind. CLASS : 140 A 166098

Int. Cl.[4] : C01M 125/22.

A LUBRICANT COMPOSITION HAVING ANTI-OXIDANT AND/OR ANTI-WEAR PROPERTIES.

Applicant : THE LUBRIZOL CORPORATION, OF 29400, LAKELAND BLVD. WICKLIFFE, OHIO 44092, U.S.A. A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF OHIO, U.S.A.

Inventor(s) : CALVIN WILLIAM SCHROECK.

Application for Patent No. 27/Del/87 filed on 15th January, 1987.

Divisional to Application No. 287/Del/84 filed on 31st March, 1984.

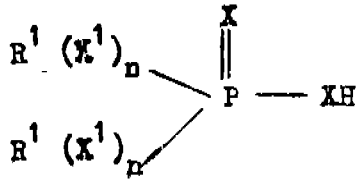
Anti dated to 31st March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

49 Claims

A lubricant composition having anti-oxidant and/or anti-wear properties, said composition comprising a lubricant oil such as herein described and an additive which is the reaction product of :

(A) a metal salt of (A) (I) at least one acid of the formula



wherein each X and X^1 is independently oxygen or sulfur, each n is zero or one, and each R^1 is independently the same or different hydrocarbon based group, and (A) (II) at least one carboxylic acid of 2 to 40 carbon atoms, the ratio of equivalents of (A) (I) to equivalents of (A) (II) being in the range of 0.5 : 1 to 500 : 1.

(B) an olefinically unsaturated compound; and

(C) active sulfur, component (A) being present in an amount to promote the reaction between components (B) and (C) and/or between components (A), (B) and (C) sufficiently to consume substantially all of component (C) at a reaction temperature below 140°C, said additive being present in the composition in an amount from 0.25% to 10% by weight.

Compl. specn. 46 pages.

Ind. CLASS : 140 A 2 166099

Int. Cl.[4] : C01M 125/24.

A PHOSPHORUS CONTAINING METAL SALT/OLEFIN ADDITIVE COMPOSITION.

Applicant : THE LUBRIZOL CORPORATION, OF 29400 LAKELAND BLVD. WICKLIFFE, OHIO 44092, U.S.A. A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OHIO, U.S.A.

Inventor : CALVIN WILLIAM SCHROECK.

Application for Patent No. 28/Del/87 filed on 15th January, 1987.

Divisional to Application No. 287/Del/84 filed on 31st March, 1984.

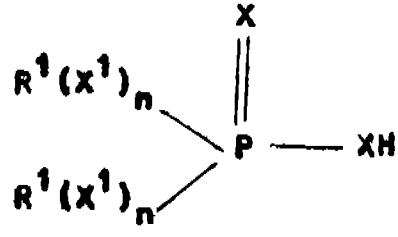
Ante dated to 31st March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

36 Claims

A phosphorus containing metal salt/olefin additive composition comprising :

(A) a metal salt of at least one acid of the formula,



wherein each X and X^1 is independently oxygen or sulfur each n is zero or one, and each R^1 is independently the same or different hydrocarbon based group, and

(B) an olefinically unsaturated compound capable of reacting with active sulfur, the ratio of equivalents of component (A) to equivalents of component (B) being in the range of about 1000 : 1 to 1 : 5.

Complete specification 44 pages.

Int. CLASS[4] : F 23 D 14/00 166100

COAL NOZZLES FOR STEAM BOILERS OR GENERATORS FIRED WITH COAL DUST BURNERS.

Applicant : BHARAT HEAVY ELECTRICALS LIMITED, OF 18–20 KASTURBA GANDHI MARG, NEW DELHI-110001. INDIA, AN INDIAN COMPANY.

Inventor(s) : MELAPUDI KARUNAKARA REDDY, KARUTHAN MALARKKAN VADAMALAYAN MELARKKAN AND THANGAVEL SOUNDARAPANDIAN.

Application for Patent No. 1114/Del/87 filed on 22nd December, 1987.

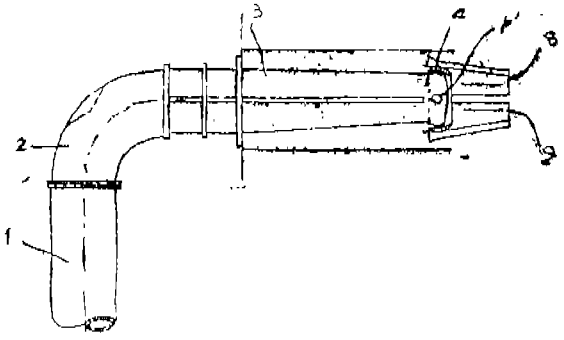
Divisional to Application No. 309/Del/85 filed on 15th April, 1985.

Ante dated to 15th April, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

A coal nozzle (3) Comprising a tip pivoted to its exist or outlet end, the tip (5) being in the form of an upper half (8) and a lower half (9) which are pivoted by a single pin to the said end of the nozzle.



Complete specn. 11 pages Drg. 2 sheets

REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 161250. Godrej & Boyce Mfg. Co. Ltd., of Godrej Bhavan, 4A Home Street, Bombay 400001, Maharashtra, India, an Indian Company. "a Mortise Cylinder for Mortise type locks". 3rd August, 1989.

Class 1. No. 161264. Godrej & Boyce Mrg. Co. Ltd., of Godrej Bhavan, 4A Home Street, Bombay-400001, Maharashtra, India, and Indian Company. "Rim Cylinder for Rim type lock". 7th August, 1989.

Class 1. No. 161521. Saroj Kumar Alias Madan, an Indian of Chowk Bazar, Munger 811201, Bihar, India. "Blower Fan Blade Assembly". 12th October, 1989.

Class 3. No. 161222. Sonodyne Television Company Limited, Indian Nationals 98, N.B., Block-E, New Alipore, Calcutta-700 053, West Bengal, India. "T.V. Sets". 26th July, 1989.

Class 3. No. 161229. Colgate-Palmolive Company, a Delaware Corporation of 300 Park Avenue, New York, New York 10022, United States of America. "Container". 28th July, 1989

Class 3. Nos. 161235 & 161236. Eagle Flask Industries Pvt. Ltd., (an Indian Company) at Eagle Estate, Talegaon 410 507, District-Pune, State of Maharashtra, India. "Flask". 31st July, 1989.

Class 3. No. 161263. Harshad Sardesai, Indian National of 2A Sushila Apartments, Nal Stop, Karve Road, District Pune, Maharashtra, India. "Water Separator". 7th August, 1989.

Class 3. No. 161268. Samsonite Corporation, a corporation organised under the laws of the State of Delaware, U.S.A., of 11200 East 45th Avenue, Denver, Colorado 80239, U.S.A. "a Luggage Case". 7th August, 1989.

Class 3. No. 161341. Pearl Polymers Ltd., 704, Rohit House, 3 Tolstoy Marg, New Delhi-110 001, India, an Indian Company registered under the provisions of Indian Companies Act, 1932. a "Cap of a Jar". 25th August, 1989.

Class 3. No. 161374. Sun Plan Investments Limited, a Company organised and existing under the laws of Hong Kong, of Level 9, One Pacific Place, 88 Queensway Hong Kong. a "Support for a Telephone". Reciprocity date is 6th March, 1989 (U.K.).

Class 3. No. 161413. Esbee Industrial Combines, (a registered Partnership Firm) of Plot No. J-159, M.I.D.C., Bhosari, Pune-411 026, State of Maharashtra, India. "Switch". 13th September, 1989.

Class 12. No. 161591. Sajavat, 210, Golf Links, New Delhi-110003 (India) "Sofa-Chair". 10th November, 1989.

Class 12. No. 161592. Sajavat, 210, Golf Links, New Delhi-110003 (India). "Sofa". 10th December, 1989.

R. A. ACHARYA
Controller General of Patents, Designs and Trade Marks

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